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## Lampiran 1

Sebelum melakukan pengujian dalam skala yang besar atau seluruh data pasien COVID 19 terlebih dahulu dilakukan pengujian dalam skala kecil yaitu sebagai berikut :

**Tabel 4. 1. Pengujian kNN skala kecil (1289-1293)**

| P  | Status | X1 | X2 | X3 | X4 |
|----|--------|----|----|----|----|
| P1 | Mati   | 2  | 77 | 0  | 9  |
| P2 | Hidup  | 1  | 62 | 0  | 9  |
| P3 | Mati   | 2  | 62 | 0  | 0  |
| P4 | Hidup  | 2  | 50 | 0  | 0  |
| P5 | ?      | 2  | 42 | 0  | 13 |

Untuk mencari status dari p5 akan digunakan konsep dasar dari kNN yaitu Euclidean Distance of P5 (2,42,0,13) dimana P1, P2, P3, P4 adalah data training dengan persamaan sebagai berikut :

$$\hat{Y}(P) = \sqrt{\sum_{i=1}^n (x_{training}^i - y_{testing}^i)^2}$$

Keterangan :

$\hat{Y}(P)$  = Status

$x_{training}^i$  = Data Training

$y_{testing}^i$  = Data Testing

i = Variabel Data

n = Dimensi Data

maka,

$$\begin{aligned}\hat{Y}_{P1} \\ &= \sqrt{(X_{1P1} - X_{1P5})^2 + (X_{2P1} - X_{2P5})^2 + (X_{3P1} - X_{3P5})^2 + (X_{4P1} - X_{4P5})^2}\end{aligned}$$

$$\hat{Y}_{P1} = \sqrt{(2 - 2)^2 + (77 - 42)^2 + (0 - 0)^2 + (9 - 13)^2}$$

$$\hat{Y}_{P1} = \sqrt{(0)^2 + (35)^2 + (0)^2 + (-4)^2}$$

$$\hat{Y}_{P1} = \sqrt{0 + 1225 + 0 + 16}$$

$$\hat{Y}_{P1} = \sqrt{1241}$$

$$\hat{Y}_{P1} = 35.228 \text{ (Mati)}$$

$$\begin{aligned}\hat{Y}_{P2} \\ = \sqrt{(X_{1P2} - X_{1P5})^2 + (X_{2P2} - X_{2P5})^2 + (X_{3P2} - X_{3P5})^2 + (X_{4P2} - X_{4P5})^2}\end{aligned}$$

$$\hat{Y}_{P2} = \sqrt{(1 - 2)^2 + (62 - 42)^2 + (0 - 0)^2 + (9 - 13)^2}$$

$$\hat{Y}_{P2} = \sqrt{(-1)^2 + (20)^2 + (0)^2 + (-4)^2}$$

$$\hat{Y}_{P2} = \sqrt{1 + 400 + 0 + 16}$$

$$\hat{Y}_{P2} = \sqrt{417}$$

$$\hat{Y}_{P2} = 20.421 \text{ (Hidup)}$$

$$\begin{aligned}\hat{Y}_{P3} \\ = \sqrt{(X_{1P2} - X_{1P5})^2 + (X_{2P2} - X_{2P5})^2 + (X_{3P2} - X_{3P5})^2 + (X_{4P2} - X_{4P5})^2}\end{aligned}$$

$$\hat{Y}_{P3} = \sqrt{(2 - 2)^2 + (62 - 42)^2 + (0 - 0)^2 + (0 - 13)^2}$$

$$\hat{Y}_{P3} = \sqrt{(0)^2 + (20)^2 + (0)^2 + (-13)^2}$$

$$\hat{Y}_{P3} = \sqrt{0 + 400 + 0 + 169}$$

$$\hat{Y}_{P3} = \sqrt{569}$$

$$\hat{Y}_{P3} = 23.854 \text{ (Mati)}$$

$$\hat{Y}_{P4} = \sqrt{(X_{1P2} - X_{1P5})^2 + (X_{2P2} - X_{2P5})^2 + (X_{3P2} - X_{3P5})^2 + (X_{4P2} - X_{4P5})^2}$$

$$\hat{Y}_{P4} = \sqrt{(2 - 2)^2 + (50 - 42)^2 + (0 - 0)^2 + (0 - 13)^2}$$

$$\hat{Y}_{P4} = \sqrt{0^2 + (8)^2 + (0)^2 + (-13)^2}$$

$$\hat{Y}_{P4} = \sqrt{0 + 64 + 0 + 169}$$

$$\hat{Y}_{P4} = \sqrt{233}$$

$$\hat{Y}_{P4} = 15.264 \text{ (Mati)}$$

Hasil dari perhitungan algoritma kNN menggunakan *Euclidean Distance* sebagai berikut :

**Tabel 4. 2. Hasil Euclidean P1, P2, P3 P4**

|                |        |       |
|----------------|--------|-------|
| $\hat{Y}_{P4}$ | 15.246 | Mati  |
| $\hat{Y}_{P2}$ | 20.421 | Hidup |
| $\hat{Y}_{P3}$ | 23.854 | Mati  |
| $\hat{Y}_{P1}$ | 35.228 | Mati  |

Berdasarkan hasil perhitungan diatas maka Prediksi Status P5 dapat diketahui dengan cara membandingkan nilai nilai  $X_{P5}$  terhadap hasil Euclidean P1, P2, P3 dan P4. Untuk nilai  $X_{1P5} = 2$  mendekati hasil dari  $\hat{Y}_{P4} = 15.246$  jadi diprediksi Mati, untuk nilai  $X_{2P5} = 42$  mendekati hasil dari  $\hat{Y}_{P1} = 35.228$  jadi diprediksi Mati, untuk nilai  $X_{3P5} = 0$  mendekati hasil dari  $\hat{Y}_{P4} = 15.246$  jadi diprediksi Mati, nilai  $X_{4P5} = 13$  mendekati hasil dari  $\hat{Y}_{P4} = 15.246$  jadi diprediksi Mati, maka P5 di prediksi Mati. Confusion Matrix dapat dilihat pada tabel 4.10 :

**Tabel 4. 3. Confution Matriks data skala kecil**

**Confusion Matrix**

|              |             | <b>Predicted</b> |             |
|--------------|-------------|------------------|-------------|
|              |             | <b>Hidup</b>     | <b>Mati</b> |
| <b>Hidup</b> | <b>Mati</b> |                  |             |

### **Confusion Matrix**

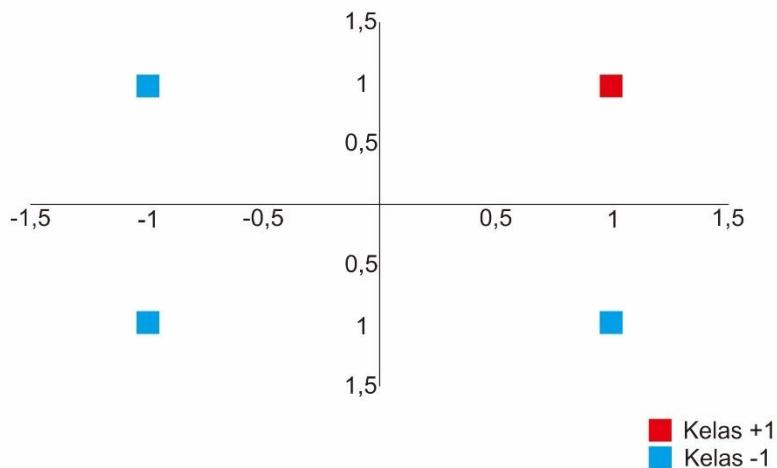
|                 |       | <b>Predicted</b> |      |
|-----------------|-------|------------------|------|
|                 |       | Hidup            | Mati |
| <b>Observed</b> | Hidup | 0                | 1    |
|                 | Mati  | 0                | 0    |

Untuk Algoritma SVM memiliki tahapan seperti berikut :

1. Visualisasikan Data
2. Meminimalisir Nilai Margin
3. Mencari Persamaan Hyperplane
4. Visualisasi Hyperplane
5. Melakukan Pengujian Data
6. Melakukan Klasifikasi.

Langkah pertama yaitu menentukan Hyperplane

| $x_1$ | $x_2$ | Kelas (y) | Support Vector (SV) |
|-------|-------|-----------|---------------------|
| 1     | 1     | 1         | 1                   |
| 1     | -1    | -1        | 1                   |
| -1    | 1     | -1        | 1                   |
| -1    | -1    | -1        | 0                   |



Karena ada dua variable ( $x_1$  dan  $x_2$ ), maka  $w$  juga akan memiliki 2 fitur ( $w_1$  dan  $w_2$ ). Formulasi yang digunakan adalah sebagai berikut :

Meminimalkan nilai :

$$\frac{1}{2} \|w\|^2 = \frac{1}{2} (w_1^2 + w_2^2)$$

Syarat :

$$y_i(w \cdot x_i + b) \geq 1, \quad i = 1, 2, 3, \dots, N$$

$$y_i(w_1 \cdot x_1 + w_2 \cdot x_2 + b) \geq 1$$

| $x_1$ | $x_2$ | Kelas (y) |
|-------|-------|-----------|
| 1     | 1     | 1         |
| 1     | -1    | -1        |
| -1    | 1     | -1        |
| -1    | -1    | -1        |

Contoh perhitungan :

$$y_1(w_1 \cdot x_1 + w_2 \cdot x_2 + b) \geq 1$$

$$1(w_1 \cdot 1 + w_2 \cdot 1 + b) \geq 1$$

$$(w_1 + w_2 + b) \geq 1$$

Hasil :

1.  $(w_1 + w_2 + b) \geq 1$ , untuk  $y_1 = 1, x_1 = 1, x_2 = 1$
2.  $(-w_1 + w_2 - b) \geq 1$ , untuk  $y_2 = -1, x_1 = 1, x_2 = -1$
3.  $(w_1 - w_2 - b) \geq 1$ , untuk  $y_3 = -1, x_1 = -1, x_2 = 1$
4.  $(w_1 + w_2 - b) \geq 1$ , untuk  $y_4 = -1, x_1 = -1, x_2 = -1$

Kemudian menjumlahkan persamaan yang telah didapatkan :

1. Jumlahkan persamaan (1) dan (2)

$$\begin{aligned} (w_1 + w_2 + b) &\geq 1 \\ (w_1 + w_2 + b) &\geq 1 \end{aligned}$$

----- +

$$2w_2 = 2$$

Maka  $w_2 = 1$

2. Jumlahkan persamaan (1) dan (3)

$$\begin{aligned} (w_1 + w_2 + b) &\geq 1 \\ (w_1 - w_2 - b) &\geq 1 \end{aligned}$$

----- +

$$2w_1 = 2$$

Maka  $w_1 = 1$

3. Jumlahkan persamaan (2) dan (3)

$$\begin{aligned} (-w_1 + w_2 - b) &\geq 1 \\ (w_1 - w_2 - b) &\geq 1 \end{aligned}$$

----- +

$$-2b = 2$$

Maka  $b = -1$

Sehingga didapatkan persamaan hyperplane :

$$\begin{aligned} w_1 \cdot x_1 + w_2 \cdot x_2 + b &= 0 \\ x_1 + x_2 - 1 &= 0 \end{aligned}$$

$$x_2 = 1 - x_1$$

Selanjutnya mengklasifikasikan menggunakan persamaan hyperplane yang didapatkan :

$$f(x) = x_1 + x_2 - 1$$

$$kelas = \text{sign}(f(x))$$

| No | Data Uji |       | Hasil Klasifikasi                           |
|----|----------|-------|---|
|    | $x_1$    | $x_2$ | $\text{kelas} = \text{sign}(x_1 + x_2 - 1)$ |
| 1  | 1        | 5     | $\text{sign}(1 + 5 - 1) = +1$               |
| 2  | -1       | 4     | $\text{sign}(-1 + 4 - 1) = +1$              |
| 3  | 0        | 7     | $\text{sign}(0 + 7 - 1) = +1$               |
| 4  | -9       | 0     | $\text{sign}(-9 + 0 - 1) = -1$              |
| 5  | 2        | -2    | $\text{sign}(2 - 2 - 1) = -1$               |

Maka dari percobaan tersebut kita menemukan bahwa yang termasuk dalam kelas +1 ada tiga data 1, 2, dan 3 sedangkan yang masuk kedalam kelas -1 ada 2 data yaitu 4 dan 5.

## Lampiran 2

- Pengujian 1 nilai K kNN

**Tabel Lampiran 1 Hasil Pengujian 1 kNN Semua Nilai K**

| K  | Accuracy | Precision | Recall | AUC   |
|----|----------|-----------|--------|-------|
| 1  | 0.980    | 0.979     | 0.980  | 0.703 |
| 2  | 0.978    | 0.978     | 0.978  | 0.817 |
| 3  | 0.983    | 0.981     | 0.983  | 0.777 |
| 4  | 0.984    | 0.982     | 0.984  | 0.822 |
| 5  | 0.985    | 0.982     | 0.985  | 0.811 |
| 6  | 0.985    | 0.984     | 0.985  | 0.841 |
| 7  | 0.982    | 0.979     | 0.982  | 0.829 |
| 8  | 0.985    | 0.982     | 0.985  | 0.818 |
| 9  | 0.985    | 0.982     | 0.985  | 0.846 |
| 10 | 0.981    | 0.977     | 0.981  | 0.849 |

- Pengujian 2 nilai K kNN

**Tabel Lampiran 2 Pengujian 2 kNN Semua Nilai K**

| K | Accuracy | Precision | Recall | AUC   |
|---|----------|-----------|--------|-------|
| 1 | 0.977    | 0.978     | 0.977  | 0.730 |
| 2 | 0.978    | 0.979     | 0.978  | 0.787 |
| 3 | 0.985    | 0.983     | 0.985  | 0.821 |
| 4 | 0.987    | 0.985     | 0.987  | 0.844 |
| 5 | 0.986    | 0.984     | 0.986  | 0.806 |
| 6 | 0.985    | 0.983     | 0.985  | 0.837 |
| 7 | 0.986    | 0.984     | 0.986  | 0.834 |

|    |       |       |       |       |
|----|-------|-------|-------|-------|
| 8  | 0.984 | 0.982 | 0.984 | 0.817 |
| 9  | 0.983 | 0.981 | 0.983 | 0.831 |
| 10 | 0.985 | 0.983 | 0.985 | 0.859 |

- Pengujian 3 nilai K kNN

**Tabel Lampiran 3 Pengujian 3 kNN Semua Nilai K**

| K  | Accuracy | Precision | Recall | AUC   |
|----|----------|-----------|--------|-------|
| 1  | 0.980    | 0.979     | 0.980  | 0.731 |
| 2  | 0.979    | 0.978     | 0.979  | 0.772 |
| 3  | 0.985    | 0.983     | 0.985  | 0.774 |
| 4  | 0.985    | 0.982     | 0.985  | 0.800 |
| 5  | 0.985    | 0.982     | 0.985  | 0.808 |
| 6  | 0.984    | 0.982     | 0.984  | 0.814 |
| 7  | 0.985    | 0.982     | 0.985  | 0.816 |
| 8  | 0.983    | 0.980     | 0.983  | 0.814 |
| 9  | 0.984    | 0.981     | 0.984  | 0.835 |
| 10 | 0.983    | 0.979     | 0.983  | 0.824 |

## Lampiran 2

- Hasil Pengujian 1 kNN K=1

**Tabel Lampiran 4 Hasil Pengujian 1 KNN K=1**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 5328  | 106   | 5434            |
| Accuracy                              | 0.980 | 0.980 | 0.980           |
| Precision (Positive Predictive Value) | 0.988 | 0.489 | 0.979           |

### Model Performance Metrics

|                                  | Hidup  | Mati  | Average / Total |
|----------------------------------|--------|-------|-----------------|
| Recall (True Positive Rate)      | 0.991  | 0.415 | 0.980           |
| False Positive Rate              | 0.585  | 0.009 | 0.297           |
| False Discovery Rate             | 0.012  | 0.511 | 0.261           |
| F1 Score                         | 0.990  | 0.449 | 0.979           |
| Matthews Correlation Coefficient |        |       | NaN             |
| Area Under Curve (AUC)           | 0.703  | 0.703 | 0.703           |
| Negative Predictive Value        | 0.489  | 0.988 | 0.739           |
| True Negative Rate               | 0.415  | 0.991 | 0.703           |
| False Negative Rate              | 0.009  | 0.585 | 0.297           |
| False Omission Rate              | 0.511  | 0.012 | 0.261           |
| Threat Score                     | 31.071 | 0.286 | 15.678          |
| Statistical Parity               | 0.983  | 0.017 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 1 kNN K=2**

**Tabel Lampiran 5 Hasil Pengujian 1 KNN K=2**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 5315  | 119   | 5434            |
| Accuracy                              | 0.978 | 0.978 | 0.978           |
| Precision (Positive Predictive Value) | 0.989 | 0.508 | 0.978           |
| Recall (True Positive Rate)           | 0.989 | 0.504 | 0.978           |
| False Positive Rate                   | 0.496 | 0.011 | 0.253           |

### Model Performance Metrics

|                                  | Hidup  | Mati  | Average / Total |
|----------------------------------|--------|-------|-----------------|
| False Discovery Rate             | 0.011  | 0.492 | 0.251           |
| F1 Score                         | 0.989  | 0.506 | 0.978           |
| Matthews Correlation Coefficient |        |       | NaN             |
| Area Under Curve (AUC)           | 0.817  | 0.817 | 0.817           |
| Negative Predictive Value        | 0.508  | 0.989 | 0.749           |
| True Negative Rate               | 0.504  | 0.989 | 0.747           |
| False Negative Rate              | 0.011  | 0.496 | 0.253           |
| False Omission Rate              | 0.492  | 0.011 | 0.251           |
| Threat Score                     | 29.869 | 0.343 | 15.106          |
| Statistical Parity               | 0.978  | 0.022 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 1 kNN K=3**

**Tabel Lampiran 6 Hasil Pengujian 1 KNN K=3**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 5318  | 116   | 5434            |
| Accuracy                              | 0.983 | 0.983 | 0.983           |
| Precision (Positive Predictive Value) | 0.987 | 0.691 | 0.981           |
| Recall (True Positive Rate)           | 0.996 | 0.405 | 0.983           |
| False Positive Rate                   | 0.595 | 0.004 | 0.299           |
| False Discovery Rate                  | 0.013 | 0.309 | 0.161           |
| F1 Score                              | 0.992 | 0.511 | 0.981           |

### Model Performance Metrics

|                                  | Hidup  | Mati  | Average / Total |
|----------------------------------|--------|-------|-----------------|
| Matthews Correlation Coefficient |        |       | NaN             |
| Area Under Curve (AUC)           | 0.777  | 0.777 | 0.777           |
| Negative Predictive Value        | 0.691  | 0.987 | 0.839           |
| True Negative Rate               | 0.405  | 0.996 | 0.701           |
| False Negative Rate              | 0.004  | 0.595 | 0.299           |
| False Omission Rate              | 0.309  | 0.013 | 0.161           |
| Threat Score                     | 33.314 | 0.423 | 16.869          |
| Statistical Parity               | 0.987  | 0.013 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 1 kNN K=4**

**Tabel Lampiran 7 Hasil Pengujian 1 KNN K=4**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 5313  | 121   | 5434            |
| Accuracy                              | 0.984 | 0.984 | 0.984           |
| Precision (Positive Predictive Value) | 0.988 | 0.733 | 0.982           |
| Recall (True Positive Rate)           | 0.996 | 0.455 | 0.984           |
| False Positive Rate                   | 0.545 | 0.004 | 0.275           |
| False Discovery Rate                  | 0.012 | 0.267 | 0.139           |
| F1 Score                              | 0.992 | 0.561 | 0.982           |
| Matthews Correlation Coefficient      |       |       | NaN             |
| Area Under Curve (AUC)                | 0.822 | 0.822 | 0.822           |

### Model Performance Metrics

|                           | Hidup  | Mati  | Average / Total |
|---------------------------|--------|-------|-----------------|
| Negative Predictive Value | 0.733  | 0.988 | 0.861           |
| True Negative Rate        | 0.455  | 0.996 | 0.725           |
| False Negative Rate       | 0.004  | 0.545 | 0.275           |
| False Omission Rate       | 0.267  | 0.012 | 0.139           |
| Threat Score              | 34.822 | 0.519 | 17.671          |
| Statistical Parity        | 0.986  | 0.014 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 1 kNN K=5**

**Tabel Lampiran 8 Hasil Pengujian 1 KNN K=5**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 5320  | 114   | 5434            |
| Accuracy                              | 0.985 | 0.985 | 0.985           |
| Precision (Positive Predictive Value) | 0.988 | 0.746 | 0.982           |
| Recall (True Positive Rate)           | 0.997 | 0.412 | 0.985           |
| False Positive Rate                   | 0.588 | 0.003 | 0.295           |
| False Discovery Rate                  | 0.012 | 0.254 | 0.133           |
| F1 Score                              | 0.992 | 0.531 | 0.983           |
| Matthews Correlation Coefficient      |       |       | NaN             |
| Area Under Curve (AUC)                | 0.811 | 0.811 | 0.811           |
| Negative Predictive Value             | 0.746 | 0.988 | 0.867           |
| True Negative Rate                    | 0.412 | 0.997 | 0.705           |

### Model Performance Metrics

|                     | Hidup  | Mati  | Average / Total |
|---------------------|--------|-------|-----------------|
| False Negative Rate | 0.003  | 0.588 | 0.295           |
| False Omission Rate | 0.254  | 0.012 | 0.133           |
| Threat Score        | 35.360 | 0.475 | 17.917          |
| Statistical Parity  | 0.988  | 0.012 | 1.000           |

*Note.* All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 1 kNN K=6**

**Tabel Lampiran 9 Hasil Pengujian 1 KNN K=6**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 5306  | 128   | 5434            |
| Accuracy                              | 0.985 | 0.985 | 0.985           |
| Precision (Positive Predictive Value) | 0.987 | 0.889 | 0.984           |
| Recall (True Positive Rate)           | 0.999 | 0.438 | 0.985           |
| False Positive Rate                   | 0.563 | 0.001 | 0.282           |
| False Discovery Rate                  | 0.013 | 0.111 | 0.062           |
| F1 Score                              | 0.993 | 0.586 | 0.983           |
| Matthews Correlation Coefficient      |       |       | NaN             |
| Area Under Curve (AUC)                | 0.841 | 0.841 | 0.841           |
| Negative Predictive Value             | 0.889 | 0.987 | 0.938           |
| True Negative Rate                    | 0.438 | 0.999 | 0.718           |
| False Negative Rate                   | 0.001 | 0.563 | 0.282           |
| False Omission Rate                   | 0.111 | 0.013 | 0.062           |

### Model Performance Metrics

|                    | Hidup  | Mati  | Average / Total |
|--------------------|--------|-------|-----------------|
| Threat Score       | 35.093 | 0.651 | 17.872          |
| Statistical Parity | 0.988  | 0.012 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 1 kNN K=7**

**Tabel Lampiran 10 Hasil Pengujian 1 KNN K=7**

### Model Performance Metrics

|                                       | Hidup  | Mati  | Average / Total |
|---------------------------------------|--------|-------|-----------------|
| Support                               | 5301   | 133   | 5434            |
| Accuracy                              | 0.982  | 0.982 | 0.982           |
| Precision (Positive Predictive Value) | 0.984  | 0.762 | 0.979           |
| Recall (True Positive Rate)           | 0.997  | 0.361 | 0.982           |
| False Positive Rate                   | 0.639  | 0.003 | 0.321           |
| False Discovery Rate                  | 0.016  | 0.238 | 0.127           |
| F1 Score                              | 0.991  | 0.490 | 0.978           |
| Matthews Correlation Coefficient      |        |       | NaN             |
| Area Under Curve (AUC)                | 0.829  | 0.829 | 0.829           |
| Negative Predictive Value             | 0.762  | 0.984 | 0.873           |
| True Negative Rate                    | 0.361  | 0.997 | 0.679           |
| False Negative Rate                   | 0.003  | 0.639 | 0.321           |
| False Omission Rate                   | 0.238  | 0.016 | 0.127           |
| Threat Score                          | 28.573 | 0.417 | 14.495          |
| Statistical Parity                    | 0.988  | 0.012 | 1.000           |

### Model Performance Metrics

|  | Hidup | Mati | Average / Total |
|--|-------|------|-----------------|
|--|-------|------|-----------------|

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 1 kNN K=8**

**Tabel Lampiran 11 Hasil Pengujian 1 KNN K=8**

### Model Performance Metrics

|                                       | Hidup  | Mati  | Average / Total |
|---------------------------------------|--------|-------|-----------------|
| Support                               | 5327   | 107   | 5434            |
| Accuracy                              | 0.985  | 0.985 | 0.985           |
| Precision (Positive Predictive Value) | 0.987  | 0.755 | 0.982           |
| Recall (True Positive Rate)           | 0.998  | 0.346 | 0.985           |
| False Positive Rate                   | 0.654  | 0.002 | 0.328           |
| False Discovery Rate                  | 0.013  | 0.245 | 0.129           |
| F1 Score                              | 0.992  | 0.474 | 0.982           |
| Matthews Correlation Coefficient      |        |       | NaN             |
| Area Under Curve (AUC)                | 0.818  | 0.818 | 0.818           |
| Negative Predictive Value             | 0.755  | 0.987 | 0.871           |
| True Negative Rate                    | 0.346  | 0.998 | 0.672           |
| False Negative Rate                   | 0.002  | 0.654 | 0.328           |
| False Omission Rate                   | 0.245  | 0.013 | 0.129           |
| Threat Score                          | 34.967 | 0.394 | 17.680          |
| Statistical Parity                    | 0.991  | 0.009 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 1 kNN K=9**

**Tabel Lampiran 12 Hasil Pengujian 1 KNN K=9**

**Model Performance Metrics**

|                                       | Hidup  | Mati  | Average / Total |
|---------------------------------------|--------|-------|-----------------|
| Support                               | 5326   | 108   | 5434            |
| Accuracy                              | 0.985  | 0.985 | 0.985           |
| Precision (Positive Predictive Value) | 0.987  | 0.760 | 0.982           |
| Recall (True Positive Rate)           | 0.998  | 0.352 | 0.985           |
| False Positive Rate                   | 0.648  | 0.002 | 0.325           |
| False Discovery Rate                  | 0.013  | 0.240 | 0.127           |
| F1 Score                              | 0.992  | 0.481 | 0.982           |
| Matthews Correlation Coefficient      |        |       | NaN             |
| Area Under Curve (AUC)                | 0.846  | 0.846 | 0.846           |
| Negative Predictive Value             | 0.760  | 0.987 | 0.873           |
| True Negative Rate                    | 0.352  | 0.998 | 0.675           |
| False Negative Rate                   | 0.002  | 0.648 | 0.325           |
| False Omission Rate                   | 0.240  | 0.013 | 0.127           |
| Threat Score                          | 34.961 | 0.404 | 17.682          |
| Statistical Parity                    | 0.991  | 0.009 | 1.000           |

*Note.* All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 1 kNN K=10**

**Tabel Lampiran 13 Hasil Pengujian 1 KNN K=10**

**Model Performance Metrics**

|                                       | Hidup  | Mati  | Average / Total |
|---------------------------------------|--------|-------|-----------------|
| Support                               | 5308   | 126   | 5434            |
| Accuracy                              | 0.981  | 0.981 | 0.981           |
| Precision (Positive Predictive Value) | 0.982  | 0.756 | 0.977           |
| Recall (True Positive Rate)           | 0.998  | 0.246 | 0.981           |
| False Positive Rate                   | 0.754  | 0.002 | 0.378           |
| False Discovery Rate                  | 0.018  | 0.244 | 0.131           |
| F1 Score                              | 0.990  | 0.371 | 0.976           |
| Matthews Correlation Coefficient      |        |       | NaN             |
| Area Under Curve (AUC)                | 0.849  | 0.849 | 0.849           |
| Negative Predictive Value             | 0.756  | 0.982 | 0.869           |
| True Negative Rate                    | 0.246  | 0.998 | 0.622           |
| False Negative Rate                   | 0.002  | 0.754 | 0.378           |
| False Omission Rate                   | 0.244  | 0.018 | 0.131           |
| Threat Score                          | 26.490 | 0.270 | 13.380          |
| Statistical Parity                    | 0.992  | 0.008 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 2 kNN K=1**

**Tabel Lampiran 14 Hasil Pengujian 2 KNN K=1**

**Model Performance Metrics**

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 10660 | 209   | 10869           |
| Accuracy                              | 0.977 | 0.977 | 0.977           |
| Precision (Positive Predictive Value) | 0.990 | 0.409 | 0.978           |

### Model Performance Metrics

|                                  | Hidup  | Mati  | Average / Total |
|----------------------------------|--------|-------|-----------------|
| Recall (True Positive Rate)      | 0.987  | 0.474 | 0.977           |
| False Positive Rate              | 0.526  | 0.013 | 0.270           |
| False Discovery Rate             | 0.010  | 0.591 | 0.301           |
| F1 Score                         | 0.988  | 0.439 | 0.978           |
| Matthews Correlation Coefficient |        |       | NaN             |
| Area Under Curve (AUC)           | 0.730  | 0.730 | 0.730           |
| Negative Predictive Value        | 0.409  | 0.990 | 0.699           |
| True Negative Rate               | 0.474  | 0.987 | 0.730           |
| False Negative Rate              | 0.013  | 0.526 | 0.270           |
| False Omission Rate              | 0.591  | 0.010 | 0.301           |
| Threat Score                     | 28.972 | 0.250 | 14.611          |
| Statistical Parity               | 0.978  | 0.022 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 2 kNN K=2**

**Tabel Lampiran 15 Hasil Pengujian 2 KNN K=2**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 10660 | 209   | 10869           |
| Accuracy                              | 0.978 | 0.978 | 0.978           |
| Precision (Positive Predictive Value) | 0.989 | 0.440 | 0.979           |
| Recall (True Positive Rate)           | 0.989 | 0.455 | 0.978           |
| False Positive Rate                   | 0.545 | 0.011 | 0.278           |

### Model Performance Metrics

|                                  | Hidup  | Mati  | Average / Total |
|----------------------------------|--------|-------|-----------------|
| False Discovery Rate             | 0.011  | 0.560 | 0.285           |
| F1 Score                         | 0.989  | 0.447 | 0.979           |
| Matthews Correlation Coefficient |        |       | NaN             |
| Area Under Curve (AUC)           | 0.787  | 0.787 | 0.787           |
| Negative Predictive Value        | 0.440  | 0.989 | 0.715           |
| True Negative Rate               | 0.455  | 0.989 | 0.722           |
| False Negative Rate              | 0.011  | 0.545 | 0.278           |
| False Omission Rate              | 0.560  | 0.011 | 0.285           |
| Threat Score                     | 30.198 | 0.267 | 15.232          |
| Statistical Parity               | 0.980  | 0.020 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 2 kNN K=3**

**Tabel Lampiran 16 Hasil Pengujian 2 KNN K=3**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 10660 | 209   | 10869           |
| Accuracy                              | 0.985 | 0.985 | 0.985           |
| Precision (Positive Predictive Value) | 0.989 | 0.655 | 0.983           |
| Recall (True Positive Rate)           | 0.995 | 0.455 | 0.985           |
| False Positive Rate                   | 0.545 | 0.005 | 0.275           |
| False Discovery Rate                  | 0.011 | 0.345 | 0.178           |

### Model Performance Metrics

|                                  | Hidup  | Mati  | Average / Total |
|----------------------------------|--------|-------|-----------------|
| F1 Score                         | 0.992  | 0.537 | 0.984           |
| Matthews Correlation Coefficient |        |       | NaN             |
| Area Under Curve (AUC)           | 0.821  | 0.821 | 0.821           |
| Negative Predictive Value        | 0.655  | 0.989 | 0.822           |
| True Negative Rate               | 0.455  | 0.995 | 0.725           |
| False Negative Rate              | 0.005  | 0.545 | 0.275           |
| False Omission Rate              | 0.345  | 0.011 | 0.178           |
| Threat Score                     | 38.165 | 0.444 | 19.305          |
| Statistical Parity               | 0.987  | 0.013 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 2 kNN K=4**

**Tabel Lampiran 17 Hasil Pengujian 2 KNN K=4**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 10660 | 209   | 10869           |
| Accuracy                              | 0.987 | 0.987 | 0.987           |
| Precision (Positive Predictive Value) | 0.990 | 0.736 | 0.985           |
| Recall (True Positive Rate)           | 0.997 | 0.493 | 0.987           |
| False Positive Rate                   | 0.507 | 0.003 | 0.255           |
| False Discovery Rate                  | 0.010 | 0.264 | 0.137           |
| F1 Score                              | 0.993 | 0.590 | 0.986           |
| Matthews Correlation Coefficient      |       |       | NaN             |

### Model Performance Metrics

|                           | Hidup  | Mati  | Average / Total |
|---------------------------|--------|-------|-----------------|
| Area Under Curve (AUC)    | 0.844  | 0.844 | 0.844           |
| Negative Predictive Value | 0.736  | 0.990 | 0.863           |
| True Negative Rate        | 0.493  | 0.997 | 0.745           |
| False Negative Rate       | 0.003  | 0.507 | 0.255           |
| False Omission Rate       | 0.264  | 0.010 | 0.137           |
| Threat Score              | 42.663 | 0.572 | 21.617          |
| Statistical Parity        | 0.987  | 0.013 | 1.000           |

*Note.* All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 2 kNN K=5**

**Tabel Lampiran 18 Hasil Pengujian 2 KNN K=5**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 10668 | 201   | 10869           |
| Accuracy                              | 0.986 | 0.986 | 0.986           |
| Precision (Positive Predictive Value) | 0.988 | 0.758 | 0.984           |
| Recall (True Positive Rate)           | 0.998 | 0.358 | 0.986           |
| False Positive Rate                   | 0.642 | 0.002 | 0.322           |
| False Discovery Rate                  | 0.012 | 0.242 | 0.127           |
| F1 Score                              | 0.993 | 0.486 | 0.984           |
| Matthews Correlation Coefficient      |       |       | NaN             |
| Area Under Curve (AUC)                | 0.806 | 0.806 | 0.806           |
| Negative Predictive Value             | 0.758 | 0.988 | 0.873           |

### Model Performance Metrics

|                     | Hidup  | Mati  | Average / Total |
|---------------------|--------|-------|-----------------|
| True Negative Rate  | 0.358  | 0.998 | 0.678           |
| False Negative Rate | 0.002  | 0.642 | 0.322           |
| False Omission Rate | 0.242  | 0.012 | 0.127           |
| Threat Score        | 37.883 | 0.411 | 19.147          |
| Statistical Parity  | 0.991  | 0.009 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 2 kNN K=6**

**Tabel Lampiran 19 Hasil Pengujian 2 KNN K=6**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 10658 | 211   | 10869           |
| Accuracy                              | 0.985 | 0.985 | 0.985           |
| Precision (Positive Predictive Value) | 0.988 | 0.736 | 0.983           |
| Recall (True Positive Rate)           | 0.997 | 0.384 | 0.985           |
| False Positive Rate                   | 0.616 | 0.003 | 0.309           |
| False Discovery Rate                  | 0.012 | 0.264 | 0.138           |
| F1 Score                              | 0.993 | 0.505 | 0.983           |
| Matthews Correlation Coefficient      |       |       | NaN             |
| Area Under Curve (AUC)                | 0.837 | 0.837 | 0.837           |
| Negative Predictive Value             | 0.736 | 0.988 | 0.862           |
| True Negative Rate                    | 0.384 | 0.997 | 0.691           |
| False Negative Rate                   | 0.003 | 0.616 | 0.309           |

### Model Performance Metrics

|                     | Hidup  | Mati  | Average / Total |
|---------------------|--------|-------|-----------------|
| False Omission Rate | 0.264  | 0.012 | 0.138           |
| Threat Score        | 36.779 | 0.431 | 18.605          |
| Statistical Parity  | 0.990  | 0.010 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 2 kNN K=7**

**Tabel Lampiran 20 Hasil Pengujian 2 KNN K=7**

### Model Performance Metrics

|                                       | Hidup  | Mati  | Average / Total |
|---------------------------------------|--------|-------|-----------------|
| Support                               | 10671  | 198   | 10869           |
| Accuracy                              | 0.986  | 0.986 | 0.986           |
| Precision (Positive Predictive Value) | 0.987  | 0.795 | 0.984           |
| Recall (True Positive Rate)           | 0.999  | 0.313 | 0.986           |
| False Positive Rate                   | 0.687  | 0.001 | 0.344           |
| False Discovery Rate                  | 0.013  | 0.205 | 0.109           |
| F1 Score                              | 0.993  | 0.449 | 0.983           |
| Matthews Correlation Coefficient      |        |       | NaN             |
| Area Under Curve (AUC)                | 0.834  | 0.834 | 0.834           |
| Negative Predictive Value             | 0.795  | 0.987 | 0.891           |
| True Negative Rate                    | 0.313  | 0.999 | 0.656           |
| False Negative Rate                   | 0.001  | 0.687 | 0.344           |
| False Omission Rate                   | 0.205  | 0.013 | 0.109           |
| Threat Score                          | 36.997 | 0.369 | 18.683          |

### Model Performance Metrics

|                    | Hidup | Mati  | Average / Total |
|--------------------|-------|-------|-----------------|
| Statistical Parity | 0.993 | 0.007 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 2 kNN K=8**

**Tabel Lampiran 21 Hasil Pengujian 2 KNN K=8**

### Model Performance Metrics

|                                       | Hidup  | Mati  | Average / Total |
|---------------------------------------|--------|-------|-----------------|
| Support                               | 10648  | 221   | 10869           |
| Accuracy                              | 0.984  | 0.984 | 0.984           |
| Precision (Positive Predictive Value) | 0.986  | 0.778 | 0.982           |
| Recall (True Positive Rate)           | 0.998  | 0.317 | 0.984           |
| False Positive Rate                   | 0.683  | 0.002 | 0.343           |
| False Discovery Rate                  | 0.014  | 0.222 | 0.118           |
| F1 Score                              | 0.992  | 0.450 | 0.981           |
| Matthews Correlation Coefficient      |        |       | NaN             |
| Area Under Curve (AUC)                | 0.817  | 0.817 | 0.817           |
| Negative Predictive Value             | 0.778  | 0.986 | 0.882           |
| True Negative Rate                    | 0.317  | 0.998 | 0.657           |
| False Negative Rate                   | 0.002  | 0.683 | 0.343           |
| False Omission Rate                   | 0.222  | 0.014 | 0.118           |
| Threat Score                          | 33.006 | 0.366 | 16.686          |
| Statistical Parity                    | 0.992  | 0.008 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 2 kNN K=9**

**Tabel Lampiran 22 Hasil Pengujian 2 KNN K=9**

**Model Performance Metrics**

|                                       | Hidup  | Mati  | Average / Total |
|---------------------------------------|--------|-------|-----------------|
| Support                               | 10635  | 234   | 10869           |
| Accuracy                              | 0.983  | 0.983 | 0.983           |
| Precision (Positive Predictive Value) | 0.985  | 0.827 | 0.981           |
| Recall (True Positive Rate)           | 0.999  | 0.286 | 0.983           |
| False Positive Rate                   | 0.714  | 0.001 | 0.357           |
| False Discovery Rate                  | 0.015  | 0.173 | 0.094           |
| F1 Score                              | 0.992  | 0.425 | 0.979           |
| Matthews Correlation Coefficient      |        |       | NaN             |
| Area Under Curve (AUC)                | 0.831  | 0.831 | 0.831           |
| Negative Predictive Value             | 0.827  | 0.985 | 0.906           |
| True Negative Rate                    | 0.286  | 0.999 | 0.643           |
| False Negative Rate                   | 0.001  | 0.714 | 0.357           |
| False Omission Rate                   | 0.173  | 0.015 | 0.094           |
| Threat Score                          | 30.520 | 0.344 | 15.432          |
| Statistical Parity                    | 0.993  | 0.007 | 1.000           |

*Note.* All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 2 kNN K=10**

**Tabel Lampiran 23 Hasil Pengujian 2 KNN K=10****Model Performance Metrics**

|                                       | Hidup  | Mati  | Average / Total |
|---------------------------------------|--------|-------|-----------------|
| Support                               | 10671  | 198   | 10869           |
| Accuracy                              | 0.985  | 0.985 | 0.985           |
| Precision (Positive Predictive Value) | 0.987  | 0.678 | 0.982           |
| Recall (True Positive Rate)           | 0.997  | 0.308 | 0.985           |
| False Positive Rate                   | 0.692  | 0.003 | 0.347           |
| False Discovery Rate                  | 0.013  | 0.322 | 0.167           |
| F1 Score                              | 0.992  | 0.424 | 0.982           |
| Matthews Correlation Coefficient      |        |       | NaN             |
| Area Under Curve (AUC)                | 0.859  | 0.859 | 0.859           |
| Negative Predictive Value             | 0.678  | 0.987 | 0.833           |
| True Negative Rate                    | 0.308  | 0.997 | 0.653           |
| False Negative Rate                   | 0.003  | 0.692 | 0.347           |
| False Omission Rate                   | 0.322  | 0.013 | 0.167           |
| Threat Score                          | 35.122 | 0.313 | 17.717          |
| Statistical Parity                    | 0.992  | 0.008 | 1.000           |

*Note.* All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 3 kNN K=1**

**Tabel Lampiran 24 Hasil Pengujian 3 KNN K=1****Model Performance Metrics**

|         | Hidup | Mati | Average / Total |
|---------|-------|------|-----------------|
| Support | 15953 | 351  | 16304           |

### Model Performance Metrics

|                                       | Hidup  | Mati  | Average / Total |
|---------------------------------------|--------|-------|-----------------|
| Accuracy                              | 0.980  | 0.980 | 0.980           |
| Precision (Positive Predictive Value) | 0.988  | 0.536 | 0.979           |
| Recall (True Positive Rate)           | 0.991  | 0.470 | 0.980           |
| False Positive Rate                   | 0.530  | 0.009 | 0.269           |
| False Discovery Rate                  | 0.012  | 0.464 | 0.238           |
| F1 Score                              | 0.990  | 0.501 | 0.979           |
| Matthews Correlation Coefficient      |        |       | NaN             |
| Area Under Curve (AUC)                | 0.731  | 0.731 | 0.731           |
| Negative Predictive Value             | 0.536  | 0.988 | 0.762           |
| True Negative Rate                    | 0.470  | 0.991 | 0.731           |
| False Negative Rate                   | 0.009  | 0.530 | 0.269           |
| False Omission Rate                   | 0.464  | 0.012 | 0.238           |
| Threat Score                          | 30.699 | 0.350 | 15.524          |
| Statistical Parity                    | 0.981  | 0.019 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 3 kNN K=2**

**Tabel Lampiran 25 Hasil Pengujian 3 KNN K=2**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 15974 | 330   | 16304           |
| Accuracy                              | 0.979 | 0.979 | 0.979           |
| Precision (Positive Predictive Value) | 0.988 | 0.489 | 0.978           |

### Model Performance Metrics

|                                  | Hidup  | Mati  | Average / Total |
|----------------------------------|--------|-------|-----------------|
| Recall (True Positive Rate)      | 0.991  | 0.418 | 0.979           |
| False Positive Rate              | 0.582  | 0.009 | 0.295           |
| False Discovery Rate             | 0.012  | 0.511 | 0.261           |
| F1 Score                         | 0.989  | 0.451 | 0.979           |
| Matthews Correlation Coefficient |        |       | NaN             |
| Area Under Curve (AUC)           | 0.772  | 0.772 | 0.772           |
| Negative Predictive Value        | 0.489  | 0.988 | 0.739           |
| True Negative Rate               | 0.418  | 0.991 | 0.705           |
| False Negative Rate              | 0.009  | 0.582 | 0.295           |
| False Omission Rate              | 0.511  | 0.012 | 0.261           |
| Threat Score                     | 29.981 | 0.287 | 15.134          |
| Statistical Parity               | 0.983  | 0.017 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 3 kNN K=3**

**Tabel Lampiran 26 Hasil Pengujian 3 KNN K=3**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 15998 | 306   | 16304           |
| Accuracy                              | 0.985 | 0.985 | 0.985           |
| Precision (Positive Predictive Value) | 0.989 | 0.660 | 0.983           |
| Recall (True Positive Rate)           | 0.996 | 0.425 | 0.985           |
| False Positive Rate                   | 0.575 | 0.004 | 0.290           |

### Model Performance Metrics

|                                  | Hidup  | Mati  | Average / Total |
|----------------------------------|--------|-------|-----------------|
| False Discovery Rate             | 0.011  | 0.340 | 0.176           |
| F1 Score                         | 0.992  | 0.517 | 0.984           |
| Matthews Correlation Coefficient |        |       | NaN             |
| Area Under Curve (AUC)           | 0.774  | 0.774 | 0.774           |
| Negative Predictive Value        | 0.660  | 0.989 | 0.824           |
| True Negative Rate               | 0.425  | 0.996 | 0.710           |
| False Negative Rate              | 0.004  | 0.575 | 0.290           |
| False Omission Rate              | 0.340  | 0.011 | 0.176           |
| Threat Score                     | 38.021 | 0.419 | 19.220          |
| Statistical Parity               | 0.988  | 0.012 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 3 kNN K=4**

**Tabel Lampiran 27 Hasil Pengujian 3 KNN K=4**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 15979 | 325   | 16304           |
| Accuracy                              | 0.985 | 0.985 | 0.985           |
| Precision (Positive Predictive Value) | 0.989 | 0.676 | 0.982           |
| Recall (True Positive Rate)           | 0.996 | 0.431 | 0.985           |
| False Positive Rate                   | 0.569 | 0.004 | 0.287           |
| False Discovery Rate                  | 0.011 | 0.324 | 0.168           |
| F1 Score                              | 0.992 | 0.526 | 0.983           |

### Model Performance Metrics

|                                  | Hidup  | Mati  | Average / Total |
|----------------------------------|--------|-------|-----------------|
| Matthews Correlation Coefficient |        |       | NaN             |
| Area Under Curve (AUC)           | 0.800  | 0.800 | 0.800           |
| Negative Predictive Value        | 0.676  | 0.989 | 0.832           |
| True Negative Rate               | 0.431  | 0.996 | 0.713           |
| False Negative Rate              | 0.004  | 0.569 | 0.287           |
| False Omission Rate              | 0.324  | 0.011 | 0.168           |
| Threat Score                     | 36.412 | 0.439 | 18.425          |
| Statistical Parity               | 0.987  | 0.013 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 3 kNN K=5**

**Tabel Lampiran 28 Pengujian 3 KNN K=5**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 15968 | 336   | 16304           |
| Accuracy                              | 0.985 | 0.985 | 0.985           |
| Precision (Positive Predictive Value) | 0.987 | 0.766 | 0.982           |
| Recall (True Positive Rate)           | 0.998 | 0.360 | 0.985           |
| False Positive Rate                   | 0.640 | 0.002 | 0.321           |
| False Discovery Rate                  | 0.013 | 0.234 | 0.124           |
| F1 Score                              | 0.992 | 0.490 | 0.982           |
| Matthews Correlation Coefficient      |       |       | NaN             |
| Area Under Curve (AUC)                | 0.808 | 0.808 | 0.808           |

### Model Performance Metrics

|                           | Hidup  | Mati  | Average / Total |
|---------------------------|--------|-------|-----------------|
| Negative Predictive Value | 0.766  | 0.987 | 0.876           |
| True Negative Rate        | 0.360  | 0.998 | 0.679           |
| False Negative Rate       | 0.002  | 0.640 | 0.321           |
| False Omission Rate       | 0.234  | 0.013 | 0.124           |
| Threat Score              | 34.113 | 0.419 | 17.266          |
| Statistical Parity        | 0.990  | 0.010 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 3 kNN K=6**

**Tabel Lampiran 29 Pengujian 3 KNN K=6**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 15980 | 324   | 16304           |
| Accuracy                              | 0.984 | 0.984 | 0.984           |
| Precision (Positive Predictive Value) | 0.987 | 0.735 | 0.982           |
| Recall (True Positive Rate)           | 0.997 | 0.343 | 0.984           |
| False Positive Rate                   | 0.657 | 0.003 | 0.330           |
| False Discovery Rate                  | 0.013 | 0.265 | 0.139           |
| F1 Score                              | 0.992 | 0.467 | 0.982           |
| Matthews Correlation Coefficient      |       |       | NaN             |
| Area Under Curve (AUC)                | 0.814 | 0.814 | 0.814           |
| Negative Predictive Value             | 0.735 | 0.987 | 0.861           |
| True Negative Rate                    | 0.343 | 0.997 | 0.670           |

### Model Performance Metrics

|                     | Hidup  | Mati  | Average / Total |
|---------------------|--------|-------|-----------------|
| False Negative Rate | 0.003  | 0.657 | 0.330           |
| False Omission Rate | 0.265  | 0.013 | 0.139           |
| Threat Score        | 34.206 | 0.379 | 17.292          |
| Statistical Parity  | 0.991  | 0.009 | 1.000           |

*Note.* All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 3 kNN K=7**

**Tabel Lampiran 30 Pengujian 3 KNN K=7**

### Model Performance Metrics

|                                       | Hidup | Mati  | Average / Total |
|---------------------------------------|-------|-------|-----------------|
| Support                               | 15987 | 317   | 16304           |
| Accuracy                              | 0.985 | 0.985 | 0.985           |
| Precision (Positive Predictive Value) | 0.986 | 0.793 | 0.982           |
| Recall (True Positive Rate)           | 0.999 | 0.278 | 0.985           |
| False Positive Rate                   | 0.722 | 0.001 | 0.362           |
| False Discovery Rate                  | 0.014 | 0.207 | 0.111           |
| F1 Score                              | 0.992 | 0.411 | 0.981           |
| Matthews Correlation Coefficient      |       |       | NaN             |
| Area Under Curve (AUC)                | 0.816 | 0.816 | 0.816           |
| Negative Predictive Value             | 0.793 | 0.986 | 0.889           |
| True Negative Rate                    | 0.278 | 0.999 | 0.638           |
| False Negative Rate                   | 0.001 | 0.722 | 0.362           |
| False Omission Rate                   | 0.207 | 0.014 | 0.111           |

### Model Performance Metrics

|                    | Hidup  | Mati  | Average / Total |
|--------------------|--------|-------|-----------------|
| Threat Score       | 33.189 | 0.320 | 16.755          |
| Statistical Parity | 0.993  | 0.007 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 3 kNN K=8**

**Tabel Lampiran 31 Pengujian 3 KNN K=8**

### Model Performance Metrics

|                                       | Hidup  | Mati  | Average / Total |
|---------------------------------------|--------|-------|-----------------|
| Support                               | 15982  | 322   | 16304           |
| Accuracy                              | 0.983  | 0.983 | 0.983           |
| Precision (Positive Predictive Value) | 0.985  | 0.718 | 0.980           |
| Recall (True Positive Rate)           | 0.998  | 0.261 | 0.983           |
| False Positive Rate                   | 0.739  | 0.002 | 0.371           |
| False Discovery Rate                  | 0.015  | 0.282 | 0.148           |
| F1 Score                              | 0.992  | 0.383 | 0.980           |
| Matthews Correlation Coefficient      |        |       | NaN             |
| Area Under Curve (AUC)                | 0.814  | 0.814 | 0.814           |
| Negative Predictive Value             | 0.718  | 0.985 | 0.852           |
| True Negative Rate                    | 0.261  | 0.998 | 0.629           |
| False Negative Rate                   | 0.002  | 0.739 | 0.371           |
| False Omission Rate                   | 0.282  | 0.015 | 0.148           |
| Threat Score                          | 31.334 | 0.276 | 15.805          |
| Statistical Parity                    | 0.993  | 0.007 | 1.000           |

### Model Performance Metrics

|  | Hidup | Mati | Average / Total |
|--|-------|------|-----------------|
|--|-------|------|-----------------|

Note. All metrics are calculated for every class against all other classes.

- Hasil Pengujian 3 kNN K=9

Tabel Lampiran 32 Pengujian 3 KNN K=9

### Model Performance Metrics

|                                       | Hidup  | Mati  | Average / Total |
|---------------------------------------|--------|-------|-----------------|
| Support                               | 15982  | 322   | 16304           |
| Accuracy                              | 0.984  | 0.984 | 0.984           |
| Precision (Positive Predictive Value) | 0.985  | 0.770 | 0.981           |
| Recall (True Positive Rate)           | 0.999  | 0.239 | 0.984           |
| False Positive Rate                   | 0.761  | 0.001 | 0.381           |
| False Discovery Rate                  | 0.015  | 0.230 | 0.123           |
| F1 Score                              | 0.992  | 0.365 | 0.979           |
| Matthews Correlation Coefficient      |        |       | NaN             |
| Area Under Curve (AUC)                | 0.835  | 0.835 | 0.835           |
| Negative Predictive Value             | 0.770  | 0.985 | 0.877           |
| True Negative Rate                    | 0.239  | 0.999 | 0.619           |
| False Negative Rate                   | 0.001  | 0.761 | 0.381           |
| False Omission Rate                   | 0.230  | 0.015 | 0.123           |
| Threat Score                          | 31.109 | 0.265 | 15.687          |
| Statistical Parity                    | 0.994  | 0.006 | 1.000           |

Note. All metrics are calculated for every class against all other classes.

- **Hasil Pengujian 3 kNN K=10**

**Tabel Lampiran 33 Pengujian 3 KNN K=10**

**Model Performance Metrics**

|                                       | Hidup  | Mati  | Average / Total |
|---------------------------------------|--------|-------|-----------------|
| Support                               | 15965  | 339   | 16304           |
| Accuracy                              | 0.983  | 0.983 | 0.983           |
| Precision (Positive Predictive Value) | 0.984  | 0.737 | 0.979           |
| Recall (True Positive Rate)           | 0.998  | 0.248 | 0.983           |
| False Positive Rate                   | 0.752  | 0.002 | 0.377           |
| False Discovery Rate                  | 0.016  | 0.263 | 0.139           |
| F1 Score                              | 0.991  | 0.371 | 0.978           |
| Matthews Correlation Coefficient      |        |       | NaN             |
| Area Under Curve (AUC)                | 0.824  | 0.824 | 0.824           |
| Negative Predictive Value             | 0.737  | 0.984 | 0.861           |
| True Negative Rate                    | 0.248  | 0.998 | 0.623           |
| False Negative Rate                   | 0.002  | 0.752 | 0.377           |
| False Omission Rate                   | 0.263  | 0.016 | 0.139           |
| Threat Score                          | 29.509 | 0.267 | 14.888          |
| Statistical Parity                    | 0.993  | 0.007 | 1.000           |

*Note.* All metrics are calculated for every class against all other classes.

### Lampiran 3

**Tabel Lampiran 34 Data Awal**

| NO | TANGGAL | UMUR | JENIS KELAMIN | KOMORBID | MENINGGAL | SEMBUH    |
|----|---------|------|---------------|----------|-----------|-----------|
| 1  |         | 55   | P             |          | 19-Mar-20 | #N/A      |
| 2  |         | 58   | L             |          | 25-Mar-20 | #N/A      |
| 3  |         | 49   | L             |          | #N/A      | 3-Apr-20  |
| 4  |         | 48   | P             |          | #N/A      | 3-Apr-20  |
| 5  |         | 51   | L             |          | 25-Mar-20 | #N/A      |
| 6  |         | 34   | P             |          | #N/A      | 4-Apr-20  |
| 7  |         | 50   | L             |          | #N/A      | 4-Apr-20  |
| 8  |         | 49   | L             |          | #N/A      | 4-Apr-20  |
| 9  |         | 70   | L             |          | #N/A      | 5-Apr-20  |
| 10 |         | 57   | L             |          | #N/A      | 5-Apr-20  |
| 11 |         | 61   | L             |          | #N/A      | 5-Apr-20  |
| 12 |         | 58   | P             |          | #N/A      | 5-Apr-20  |
| 13 |         | 64   | P             |          | 26-Mar-20 | #N/A      |
| 14 |         | 3    | L             |          | #N/A      | 5-Apr-20  |
| 15 |         | 25   | P             |          | #N/A      | 6-Apr-20  |
| 16 |         | 56   | L             |          | #N/A      | 11-Apr-20 |
| 17 |         | 67   | L             |          | #N/A      | 11-Apr-20 |
| 18 |         | 59   | L             |          | #N/A      | 11-Apr-20 |
| 19 |         | 46   | L             |          | #N/A      | 17-Apr-20 |
| 20 |         | 77   | P             |          | #N/A      | 17-Apr-20 |
| 21 |         | 60   | L             |          | #N/A      | 17-Apr-20 |
| 22 |         | 44   | P             |          | #N/A      | 17-Apr-20 |

|    |  |    |   |  |           |           |
|----|--|----|---|--|-----------|-----------|
| 23 |  | 34 | L |  | #N/A      | 17-Apr-20 |
| 24 |  | 35 | P |  | #N/A      | 17-Apr-20 |
| 25 |  | 74 | P |  | #N/A      | 17-Apr-20 |
| 26 |  | 40 | L |  | #N/A      | #N/A      |
| 27 |  | 65 | P |  | #N/A      | 17-Apr-20 |
| 28 |  | 36 | P |  | #N/A      | 17-Apr-20 |
| 29 |  | 58 | P |  | #N/A      | 17-Apr-20 |
| 30 |  | 60 | L |  | 30-Mar-20 | #N/A      |
| 31 |  | 53 | P |  | #N/A      | 17-Apr-20 |
| 32 |  | 34 | L |  | #N/A      | 17-Apr-20 |
| 33 |  | 56 | L |  | #N/A      | 18-Apr-20 |
| 34 |  | 55 | P |  | #N/A      | 18-Apr-20 |
| 35 |  | 85 | L |  | 1-Apr-20  | #N/A      |
| 36 |  | 52 | P |  | #N/A      | 18-Apr-20 |
| 37 |  | 43 | L |  | #N/A      | 18-Apr-20 |
| 38 |  | 56 | L |  | #N/A      | 18-Apr-20 |
| 39 |  | 52 | L |  | #N/A      | 18-Apr-20 |
| 40 |  | 37 | L |  | #N/A      | 18-Apr-20 |
| 41 |  | 58 | L |  | 6-Apr-20  | #N/A      |
| 42 |  | 47 | L |  | #N/A      | 18-Apr-20 |
| 43 |  | 47 | L |  | #N/A      | 18-Apr-20 |
| 44 |  | 46 | P |  | #N/A      | 19-Apr-20 |
| 45 |  | 44 | P |  | #N/A      | 20-Apr-20 |
| 46 |  | 40 | P |  | #N/A      | 20-Apr-20 |
| 47 |  | 46 | P |  | #N/A      | 20-Apr-20 |
| 48 |  | 51 | P |  | #N/A      | 20-Apr-20 |

|    |  |    |   |  |           |           |
|----|--|----|---|--|-----------|-----------|
| 49 |  | 49 | L |  | #N/A      | 20-Apr-20 |
| 50 |  | 52 | L |  | #N/A      | 20-Apr-20 |
| 51 |  | 66 | L |  | #N/A      | #N/A      |
| 52 |  | 52 | L |  | 6-Apr-20  | #N/A      |
| 53 |  | 73 | L |  | 8-Apr-20  | #N/A      |
| 54 |  | 34 | L |  | #N/A      | 20-Apr-20 |
| 55 |  | 50 | L |  | #N/A      | 20-Apr-20 |
| 56 |  | 33 | L |  | #N/A      | 22-Apr-20 |
| 57 |  | 47 | L |  | #N/A      | 22-Apr-20 |
| 58 |  | 59 | L |  | #N/A      | #N/A      |
| 59 |  | 50 | P |  | #N/A      | 22-Apr-20 |
| 60 |  | 37 | P |  | #N/A      | #N/A      |
| 61 |  | 67 | P |  | 8-Apr-20  | #N/A      |
| 62 |  | 43 | L |  | #N/A      | 22-Apr-20 |
| 63 |  | 66 | L |  | #N/A      | 22-Apr-20 |
| 64 |  | 68 | P |  | #N/A      | 23-Apr-20 |
| 65 |  | 49 | P |  | #N/A      | 24-Apr-20 |
| 66 |  | 63 | L |  | #N/A      | 25-Apr-20 |
| 67 |  | 48 | P |  | #N/A      | 25-Apr-20 |
| 68 |  | 62 | L |  | #N/A      | 25-Apr-20 |
| 69 |  | 69 | L |  | #N/A      | 25-Apr-20 |
| 70 |  | 52 | P |  | 10-Apr-20 | #N/A      |
| 71 |  | 36 | L |  | #N/A      | 25-Apr-20 |
| 72 |  | 25 | L |  | #N/A      | 25-Apr-20 |
| 73 |  | 46 | P |  | #N/A      | 25-Apr-20 |
| 74 |  | 51 | P |  | #N/A      | 25-Apr-20 |

|     |     |     |     |     |           |           |
|-----|-----|-----|-----|-----|-----------|-----------|
| 75  |     | 37  | L   |     | #N/A      | 25-Apr-20 |
| 76  |     | 37  | L   |     | #N/A      | 25-Apr-20 |
| 77  |     | 51  | P   |     | #N/A      | 25-Apr-20 |
| 78  |     | 72  | L   |     | 10-Apr-20 | #N/A      |
| 79  |     | 68  | P   |     | #N/A      | 4-Aug-20  |
| 80  |     | 39  | P   |     | #N/A      | 25-Apr-20 |
| 81  |     | 52  | P   |     | #N/A      | 25-Apr-20 |
| 82  |     | 65  | L   |     | #N/A      | 25-Apr-20 |
| 83  |     | 51  | P   |     | #N/A      | 26-Apr-20 |
| 84  |     | 34  | P   |     | #N/A      | 26-Apr-20 |
| 85  |     | 31  | L   |     | #N/A      | 28-May-20 |
| 86  |     | 41  | P   |     | #N/A      | 26-Apr-20 |
| 87  |     | 21  | L   |     | #N/A      | 28-May-20 |
| 88  |     | 30  | L   |     | #N/A      | 26-Apr-20 |
| 89  |     | 31  | L   |     | #N/A      | 21-May-20 |
| 90  |     | 29  | L   |     | #N/A      | 26-Apr-20 |
| 91  |     | 61  | p   |     | #N/A      | 26-Apr-20 |
| 92  |     | 61  | p   |     | 12-Apr-20 | 26-Aug-20 |
| 93  |     | 18  | L   |     | #N/A      | 27-May-20 |
| 94  |     | 29  | L   |     | #N/A      | 27-Apr-20 |
| 95  |     | 77  | P   |     | #N/A      | 27-Apr-20 |
| 96  |     | 45  | L   |     | #N/A      | 28-Apr-20 |
| 97  |     | 82  | P   |     | 13-Apr-20 | #N/A      |
| 98  |     | 53  | L   |     | 22-Apr-20 | #N/A      |
| 99  |     | 33  | P   |     | #N/A      | 11-Jul-20 |
| ... | ... | ... | ... | ... | ...       | ...       |

|       |                       |     |     |     |      |                                 |
|-------|-----------------------|-----|-----|-----|------|---------------------------------|
| ...   | ...                   | ... | ... | ... | ...  | ...                             |
| ...   | ...                   | ... | ... | ... | ...  | ...                             |
| 65148 | 24<br>Agustus<br>2022 | 51  | L   |     | #N/A | Sembuh, 4<br>September<br>2022  |
| 65149 | 24<br>Agustus<br>2022 | 46  | L   |     | #N/A | 21-Aug-20                       |
| 65150 | 24<br>Agustus<br>2022 | 1   | P   |     | #N/A | Sembuh, 4<br>September<br>2022  |
| 65151 | 24<br>Agustus<br>2022 | 61  | P   |     | #N/A | Sembuh, 4<br>September<br>2022  |
| 65152 | 24<br>Agustus<br>2022 | 12  | P   |     | #N/A | Sembuh, 13<br>September<br>2022 |
| 65153 | 24<br>Agustus<br>2022 | 66  | L   |     | #N/A | Sembuh, 4<br>September<br>2022  |
| 65154 | 24<br>Agustus<br>2022 | 16  | L   |     | #N/A | Sembuh, 4<br>September<br>2022  |
| 65155 | 24<br>Agustus<br>2022 | 12  | L   |     | #N/A | Sembuh, 4<br>September<br>2022  |
| 65156 | 24<br>Agustus<br>2022 | 27  | L   |     | #N/A | Sembuh, 4<br>September<br>2022  |
| 65157 | 24<br>Agustus<br>2022 | 30  | P   |     | #N/A | Sembuh, 4<br>September<br>2022  |
| 65158 | 24<br>Agustus<br>2022 | 21  | P   |     | #N/A | Sembuh, 4<br>September<br>2022  |

|       |                       |    |   |  |      |                                |
|-------|-----------------------|----|---|--|------|--------------------------------|
| 65159 | 24<br>Agustus<br>2022 | 49 | L |  | #N/A | Sembuh, 4<br>September<br>2022 |
| 65160 | 24<br>Agustus<br>2022 | 28 | P |  | #N/A | Sembuh, 4<br>September<br>2022 |
| 65161 | 24<br>Agustus<br>2022 | 2  | P |  | #N/A | Sembuh, 4<br>September<br>2022 |
| 65162 | 24<br>Agustus<br>2022 | 52 | L |  | #N/A | 18-Jul-20                      |
| 65163 | 24<br>Agustus<br>2022 | 45 | L |  | #N/A | 13-Jan-21                      |
| 65164 | 24<br>Agustus<br>2022 | 1  | P |  | #N/A | Sembuh, 4<br>September<br>2022 |
| 65165 | 25<br>Agustus<br>2022 | 64 | P |  | #N/A | Sembuh, 5<br>September<br>2022 |
| 65166 | 25<br>Agustus<br>2022 | 40 | L |  | #N/A | Sembuh, 5<br>September<br>2022 |
| 65167 | 25<br>Agustus<br>2022 | 40 | L |  | #N/A | 18 Agustus<br>2021             |
| 65168 | 25<br>Agustus<br>2022 | 42 | L |  | #N/A | 5-Oct-20                       |
| 65169 | 25<br>Agustus<br>2022 | 41 | L |  | #N/A | Sembuh, 5<br>September<br>2022 |
| 65170 | 25<br>Agustus<br>2022 | 67 | L |  | #N/A | Sembuh, 5<br>September<br>2022 |

|       |                       |    |   |  |      |                                    |
|-------|-----------------------|----|---|--|------|------------------------------------|
| 65171 | 25<br>Agustus<br>2022 | 81 | L |  | #N/A | Sembuh,<br>18<br>September<br>2022 |
| 65172 | 25<br>Agustus<br>2022 | 34 | P |  | #N/A | 30-Jan-21                          |
| 65173 | 26<br>Agustus<br>2022 | 34 | L |  | #N/A | Sembuh, 6<br>September<br>2022     |
| 65174 | 26<br>Agustus<br>2022 | 0  | L |  | #N/A | Sembuh,13<br>September<br>2022     |
| 65175 | 26<br>Agustus<br>2022 | 20 | P |  | #N/A | Sembuh,13<br>September<br>2022     |
| 65176 | 26<br>Agustus<br>2022 | 34 | P |  | #N/A | 2-Aug-20                           |
| 65177 | 26<br>Agustus<br>2022 | 33 | P |  | #N/A | 6-Mar-21                           |
| 65178 | 27<br>Agustus<br>2022 | 61 | P |  | #N/A | 2-Jan-21                           |
| 65179 | 27<br>Agustus<br>2022 | 39 | P |  | #N/A | 27 Oct 20                          |
| 65180 | 27<br>Agustus<br>2022 | 17 | L |  | #N/A | Sembuh, 6<br>September<br>2022     |
| 65181 | 27<br>Agustus<br>2022 | 20 | L |  | #N/A | Sembuh, 8<br>September<br>2022     |
| 65182 | 28<br>Agustus         | 38 | P |  | #N/A | 14 Agustus<br>2021                 |

|       |                       |    |   |  |      |                                    |
|-------|-----------------------|----|---|--|------|------------------------------------|
|       | 2022                  |    |   |  |      |                                    |
| 65183 | 28<br>Agustus<br>2022 | 31 | L |  | #N/A | Sembuh, 8<br>September<br>2022     |
| 65184 | 28<br>Agustus<br>2022 | 33 | P |  | #N/A | 10-Apr-21                          |
| 65185 | 28<br>Agustus<br>2022 | 8  | L |  | #N/A | Sembuh, 8<br>September<br>2022     |
| 65186 | 28<br>Agustus<br>2022 | 13 | L |  | #N/A | Sembuh, 8<br>September<br>2022     |
| 65187 | 28<br>Agustus<br>2022 | 19 | L |  | #N/A | Sembuh, 9<br>September<br>2022     |
| 65188 | 30<br>Agustus<br>2022 | 10 | L |  | #N/A | Sembuh, 9<br>September<br>2022     |
| 65189 | 30<br>Agustus<br>2022 | 77 | L |  | #N/A | Sembuh,<br>18<br>September<br>2022 |
| 65190 | 30<br>Agustus<br>2022 | 47 | P |  | #N/A | Sembuh,<br>18<br>September<br>2022 |
| 65191 | 30<br>Agustus<br>2022 | 76 | P |  | #N/A | Sembuh,<br>18<br>September<br>2022 |
| 65192 | 30<br>Agustus<br>2022 | 11 | L |  | #N/A | Sembuh, 9<br>September<br>2022     |
| 65193 | 30<br>Agustus<br>2022 | 19 | P |  | #N/A | Sembuh, 9<br>September<br>2022     |

|       |                       |    |   |  |      |                                    |
|-------|-----------------------|----|---|--|------|------------------------------------|
| 65194 | 30<br>Agustus<br>2022 | 18 | P |  | #N/A | Sembuh,9<br>September<br>2022      |
| 65195 | 30<br>Agustus<br>2022 | 24 | P |  | #N/A | Sembuh,9<br>September<br>2022      |
| 65196 | 30<br>Agustus<br>2022 | 21 | P |  | #N/A | Sembuh,9<br>September<br>2022      |
| 65197 | 30<br>Agustus<br>2022 | 27 | L |  | #N/A | Sembuh,9<br>September<br>2022      |
| 65198 | 31<br>Agustus<br>2022 | 15 | P |  | #N/A | Sembuh,<br>10<br>September<br>2022 |
| 65199 | 31<br>Agustus<br>2022 | 45 | P |  | #N/A | Sembuh,<br>10<br>September<br>2022 |
| 65200 | 31<br>Agustus<br>2022 | 0  | L |  | #N/A | Sembuh,<br>18<br>September<br>2022 |
| 65201 | 31<br>Agustus<br>2022 | 33 | P |  | #N/A | 4 Nop 20                           |
| 65202 | 31<br>Agustus<br>2022 | 25 | P |  | #N/A | Sembuh,<br>10<br>September<br>2022 |
| 65203 | 31<br>Agustus<br>2022 | 21 | P |  | #N/A | 04 Maret<br>2022                   |
| 65204 | 31<br>Agustus<br>2022 | 17 | P |  | #N/A | Sembuh,<br>10<br>September         |

|       |                       |    |   |  |      | 2022                               |
|-------|-----------------------|----|---|--|------|------------------------------------|
| 65205 | 31<br>Agustus<br>2022 | 29 | P |  | #N/A | 04 Maret<br>2022                   |
| 65206 | 31<br>Agustus<br>2022 | 19 | L |  | #N/A | Sembuh,<br>11<br>September<br>2022 |
| 65207 | 31<br>Agustus<br>2022 | 52 | P |  | #N/A | Sembuh,<br>11<br>September<br>2022 |
| 65208 | 31<br>Agustus<br>2022 | 78 | P |  | #N/A | Sembuh,<br>11<br>September<br>2022 |
| 65209 | 31<br>Agustus<br>2022 | 53 | L |  | #N/A | Sembuh,<br>11<br>September<br>2022 |
| 65210 | 31<br>Agustus<br>2022 | 36 | L |  | #N/A | Sembuh,<br>01 Agustus<br>2022      |

#### Lampiran 4

**Tabel Lampiran 35 Data Olah Pasien Covid 19 Kota Makassar**

| Waktu | Status | Umur | Jenis Kelamin | Komorbid |
|-------|--------|------|---------------|----------|
| 51    | Hidup  | 62   | 2             | 0        |
| 32    | Hidup  | 26   | 1             | 0        |
| 32    | Hidup  | 43   | 1             | 0        |
| 32    | Hidup  | 8    | 2             | 0        |
| 16    | Hidup  | 19   | 1             | 0        |
| 41    | Hidup  | 22   | 1             | 0        |
| 32    | Hidup  | 37   | 2             | 0        |
| 32    | Hidup  | 35   | 1             | 0        |
| 32    | Hidup  | 28   | 1             | 0        |
| 32    | Hidup  | 27   | 2             | 0        |
| 32    | Hidup  | 31   | 2             | 0        |
| 32    | Hidup  | 34   | 1             | 0        |
| 23    | Hidup  | 32   | 1             | 0        |
| 32    | Hidup  | 34   | 2             | 0        |
| 32    | Hidup  | 31   | 1             | 0        |
| 32    | Hidup  | 1    | 2             | 0        |
| 32    | Hidup  | 35   | 1             | 0        |
| 16    | Hidup  | 31   | 1             | 0        |
| 32    | Hidup  | 30   | 1             | 0        |
| 32    | Hidup  | 34   | 2             | 0        |
| 32    | Hidup  | 32   | 1             | 0        |
| 32    | Hidup  | 28   | 2             | 0        |

|    |       |     |   |   |
|----|-------|-----|---|---|
| 16 | Hidup | 35  | 1 | 0 |
| 32 | Hidup | 28  | 1 | 0 |
| 16 | Hidup | 31  | 1 | 0 |
| 32 | Hidup | 36  | 1 | 0 |
| 8  | Hidup | 24  | 1 | 0 |
| 32 | Hidup | 34  | 2 | 0 |
| 32 | Hidup | 32  | 1 | 0 |
| 32 | Hidup | 31  | 1 | 0 |
| 32 | Hidup | 0,3 | 2 | 0 |
| 32 | Hidup | 5   | 1 | 0 |
| 32 | Hidup | 43  | 1 | 0 |
| 32 | Hidup | 52  | 1 | 0 |
| 32 | Hidup | 21  | 1 | 0 |
| 32 | Hidup | 27  | 2 | 0 |
| 25 | Hidup | 40  | 1 | 0 |
| 16 | Hidup | 42  | 2 | 0 |
| 23 | Hidup | 26  | 2 | 0 |
| 16 | Hidup | 48  | 2 | 0 |
| 32 | Hidup | 24  | 1 | 0 |
| 32 | Hidup | 30  | 1 | 0 |
| 23 | Hidup | 39  | 2 | 0 |
| 6  | Hidup | 57  | 1 | 0 |
| 32 | Hidup | 32  | 1 | 0 |
| 32 | Hidup | 27  | 1 | 0 |
| 32 | Hidup | 44  | 1 | 0 |
| 32 | Hidup | 24  | 1 | 0 |

|    |       |    |   |   |
|----|-------|----|---|---|
| 32 | Hidup | 45 | 1 | 0 |
| 23 | Hidup | 31 | 1 | 0 |
| 32 | Hidup | 29 | 1 | 0 |
| 27 | Hidup | 33 | 1 | 0 |
| 23 | Hidup | 29 | 1 | 0 |
| 23 | Hidup | 23 | 1 | 0 |
| 23 | Hidup | 30 | 1 | 0 |
| 26 | Hidup | 49 | 2 | 0 |
| 32 | Hidup | 47 | 1 | 0 |
| 32 | Hidup | 3  | 1 | 0 |
| 32 | Hidup | 24 | 1 | 0 |
| 13 | Hidup | 44 | 2 | 0 |
| 32 | Hidup | 24 | 1 | 0 |
| 19 | Hidup | 24 | 2 | 0 |
| 32 | Hidup | 2  | 1 | 0 |
| 32 | Hidup | 33 | 1 | 0 |
| 23 | Hidup | 27 | 1 | 0 |
| 23 | Hidup | 27 | 1 | 0 |
| 23 | Hidup | 27 | 2 | 0 |
| 32 | Hidup | 80 | 2 | 0 |
| 25 | Hidup | 34 | 2 | 0 |
| 25 | Hidup | 43 | 1 | 0 |
| 25 | Hidup | 29 | 2 | 0 |
| 16 | Hidup | 19 | 2 | 0 |
| 24 | Hidup | 19 | 2 | 0 |
| 24 | Hidup | 36 | 2 | 0 |

|     |       |     |     |     |
|-----|-------|-----|-----|-----|
| 24  | Hidup | 24  | 2   | 0   |
| 24  | Hidup | 34  | 2   | 0   |
| 19  | Hidup | 46  | 2   | 0   |
| 16  | Hidup | 46  | 1   | 0   |
| 94  | Hidup | 23  | 2   | 0   |
| 16  | Hidup | 21  | 1   | 0   |
| 24  | Hidup | 25  | 1   | 0   |
| 24  | Hidup | 44  | 2   | 0   |
| 23  | Hidup | 17  | 1   | 0   |
| 24  | Hidup | 53  | 1   | 0   |
| 24  | Hidup | 55  | 1   | 0   |
| 24  | Hidup | 41  | 2   | 0   |
| 24  | Hidup | 33  | 2   | 0   |
| 24  | Hidup | 55  | 2   | 0   |
| 24  | Hidup | 31  | 2   | 0   |
| 24  | Hidup | 79  | 1   | 0   |
| 24  | Hidup | 58  | 1   | 0   |
| 24  | Hidup | 14  | 2   | 0   |
| 16  | Hidup | 10  | 2   | 0   |
| 27  | Hidup | 57  | 1   | 0   |
| 5   | Hidup | 38  | 1   | 0   |
| 27  | Hidup | 1   | 2   | 0   |
| 31  | Hidup | 67  | 2   | 0   |
| 15  | Hidup | 17  | 1   | 0   |
| 15  | Hidup | 19  | 1   | 0   |
| ... | ...   | ... | ... | ... |

|     |       |     |     |     |
|-----|-------|-----|-----|-----|
| ... | ...   | ... | ... | ... |
| ... | ...   | ... | ... | ... |
| 11  | Hidup | 45  | 2   | 0   |
| 11  | Hidup | 37  | 1   | 0   |
| 11  | Hidup | 11  | 2   | 0   |
| 11  | Hidup | 31  | 2   | 0   |
| 11  | Hidup | 27  | 2   | 0   |
| 11  | Hidup | 35  | 1   | 0   |
| 11  | Hidup | 8   | 2   | 0   |
| 11  | Hidup | 35  | 1   | 0   |
| 11  | Hidup | 33  | 1   | 0   |
| 11  | Hidup | 19  | 1   | 0   |
| 11  | Hidup | 5   | 2   | 1   |
| 11  | Hidup | 28  | 1   | 0   |
| 19  | Hidup | 71  | 2   | 1   |
| 11  | Hidup | 18  | 1   | 0   |
| 11  | Hidup | 51  | 2   | 0   |
| 19  | Hidup | 79  | 2   | 0   |
| 11  | Hidup | 12  | 1   | 0   |
| 11  | Hidup | 71  | 2   | 0   |
| 11  | Hidup | 29  | 1   | 0   |
| 11  | Hidup | 17  | 1   | 0   |
| 10  | Hidup | 37  | 1   | 0   |
| 19  | Hidup | 30  | 2   | 0   |
| 11  | Hidup | 11  | 2   | 0   |
| 11  | Hidup | 64  | 2   | 0   |

|    |       |    |   |   |
|----|-------|----|---|---|
| 18 | Hidup | 61 | 1 | 0 |
| 10 | Hidup | 20 | 1 | 0 |
| 10 | Hidup | 39 | 1 | 0 |
| 9  | Hidup | 72 | 1 | 0 |
| 17 | Hidup | 90 | 1 | 0 |
| 9  | Hidup | 15 | 1 | 0 |
| 17 | Hidup | 56 | 2 | 0 |
| 17 | Hidup | 6  | 2 | 0 |
| 9  | Hidup | 49 | 1 | 0 |
| 9  | Hidup | 50 | 1 | 0 |
| 10 | Hidup | 4  | 2 | 0 |
| 10 | Hidup | 2  | 1 | 1 |
| 10 | Hidup | 48 | 1 | 0 |
| 11 | Hidup | 48 | 2 | 0 |
| 11 | Hidup | 38 | 1 | 0 |
| 11 | Hidup | 28 | 1 | 0 |
| 11 | Hidup | 30 | 2 | 0 |
| 16 | Hidup | 73 | 1 | 0 |
| 12 | Hidup | 69 | 2 | 0 |
| 12 | Hidup | 63 | 1 | 0 |
| 12 | Hidup | 49 | 1 | 0 |
| 11 | Hidup | 48 | 1 | 0 |
| 11 | Hidup | 34 | 1 | 0 |
| 21 | Hidup | 33 | 2 | 1 |
| 11 | Hidup | 75 | 1 | 0 |
| 11 | Hidup | 66 | 2 | 0 |

|    |       |    |   |   |
|----|-------|----|---|---|
| 12 | Hidup | 52 | 1 | 0 |
| 11 | Hidup | 12 | 1 | 1 |
| 11 | Hidup | 22 | 2 | 0 |
| 11 | Hidup | 1  | 2 | 0 |
| 11 | Hidup | 32 | 1 | 0 |
| 11 | Hidup | 63 | 2 | 0 |
| 11 | Hidup | 40 | 1 | 0 |
| 11 | Hidup | 47 | 1 | 0 |
| 19 | Hidup | 70 | 1 | 0 |
| 19 | Hidup | 31 | 2 | 0 |
| 12 | Hidup | 38 | 2 | 0 |
| 12 | Hidup | 15 | 2 | 0 |
| 12 | Hidup | 14 | 2 | 0 |
| 12 | Hidup | 14 | 2 | 0 |
| 14 | Hidup | 37 | 2 | 0 |
| 14 | Hidup | 36 | 1 | 0 |
| 13 | Hidup | 17 | 1 | 0 |
| 13 | Hidup | 49 | 2 | 0 |
| 12 | Hidup | 23 | 1 | 0 |
| 12 | Hidup | 92 | 1 | 0 |
| 12 | Hidup | 13 | 2 | 0 |
| 12 | Hidup | 16 | 1 | 0 |
| 12 | Hidup | 10 | 1 | 0 |
| 12 | Hidup | 13 | 1 | 0 |
| 12 | Hidup | 48 | 2 | 0 |
| 12 | Hidup | 29 | 1 | 0 |

|    |       |    |   |   |
|----|-------|----|---|---|
| 12 | Hidup | 28 | 2 | 0 |
| 17 | Hidup | 37 | 1 | 0 |
| 17 | Hidup | 5  | 2 | 0 |
| 12 | Hidup | 22 | 2 | 0 |
| 12 | Hidup | 4  | 2 | 0 |
| 12 | Hidup | 27 | 2 | 0 |
| 12 | Hidup | 48 | 1 | 0 |
| 12 | Hidup | 9  | 1 | 0 |
| 13 | Hidup | 17 | 2 | 0 |
| 13 | Hidup | 71 | 1 | 0 |
| 13 | Hidup | 28 | 2 | 0 |
| 13 | Hidup | 4  | 1 | 0 |
| 12 | Hidup | 51 | 2 | 0 |
| 12 | Hidup | 16 | 1 | 0 |
| 12 | Hidup | 32 | 1 | 0 |
| 12 | Hidup | 41 | 2 | 0 |
| 12 | Hidup | 11 | 2 | 0 |
| 13 | Hidup | 55 | 1 | 0 |
| 13 | Hidup | 45 | 2 | 0 |
| 13 | Hidup | 9  | 2 | 0 |
| 12 | Hidup | 91 | 1 | 0 |
| 12 | Hidup | 33 | 1 | 0 |
| 11 | Hidup | 28 | 1 | 0 |
| 11 | Hidup | 59 | 2 | 0 |
| 11 | Hidup | 46 | 2 | 0 |
| 11 | Hidup | 30 | 1 | 0 |

|    |       |    |   |   |
|----|-------|----|---|---|
| 11 | Hidup | 65 | 1 | 0 |
| 11 | Hidup | 51 | 1 | 0 |
| 15 | Hidup | 59 | 2 | 0 |
| 11 | Hidup | 0  | 1 | 0 |
| 11 | Hidup | 71 | 2 | 0 |
| 11 | Hidup | 37 | 1 | 0 |
| 11 | Hidup | 44 | 1 | 0 |
| 11 | Hidup | 50 | 2 | 0 |
| 15 | Hidup | 1  | 2 | 0 |
| 11 | Hidup | 12 | 2 | 0 |
| 11 | Hidup | 51 | 2 | 0 |
| 11 | Hidup | 1  | 1 | 0 |
| 11 | Hidup | 61 | 1 | 0 |
| 20 | Hidup | 12 | 1 | 0 |
| 11 | Hidup | 66 | 2 | 0 |
| 11 | Hidup | 16 | 2 | 0 |
| 11 | Hidup | 12 | 2 | 0 |
| 11 | Hidup | 27 | 2 | 0 |
| 11 | Hidup | 30 | 1 | 0 |
| 11 | Hidup | 21 | 1 | 0 |
| 11 | Hidup | 49 | 2 | 0 |
| 11 | Hidup | 28 | 1 | 0 |
| 11 | Hidup | 2  | 1 | 0 |
| 11 | Hidup | 1  | 1 | 0 |
| 11 | Hidup | 64 | 1 | 0 |
| 11 | Hidup | 40 | 2 | 0 |

|    |       |    |   |   |
|----|-------|----|---|---|
| 11 | Hidup | 41 | 2 | 0 |
| 11 | Hidup | 67 | 2 | 1 |
| 24 | Hidup | 81 | 2 | 0 |
| 11 | Hidup | 34 | 2 | 0 |
| 18 | Hidup | 0  | 2 | 0 |
| 18 | Hidup | 20 | 1 | 0 |
| 10 | Hidup | 17 | 2 | 0 |
| 12 | Hidup | 20 | 2 | 0 |
| 11 | Hidup | 31 | 2 | 0 |
| 11 | Hidup | 8  | 2 | 0 |
| 11 | Hidup | 13 | 2 | 0 |
| 12 | Hidup | 19 | 2 | 0 |
| 10 | Hidup | 10 | 2 | 0 |
| 19 | Hidup | 77 | 2 | 0 |
| 19 | Hidup | 47 | 1 | 0 |
| 19 | Hidup | 76 | 1 | 0 |
| 10 | Hidup | 11 | 2 | 0 |
| 10 | Hidup | 19 | 1 | 0 |
| 10 | Hidup | 18 | 1 | 0 |
| 10 | Hidup | 24 | 1 | 0 |
| 10 | Hidup | 21 | 1 | 0 |
| 10 | Hidup | 27 | 2 | 0 |
| 10 | Hidup | 15 | 1 | 0 |
| 10 | Hidup | 45 | 1 | 0 |
| 18 | Hidup | 0  | 2 | 0 |
| 10 | Hidup | 25 | 1 | 0 |

|    |       |    |   |   |
|----|-------|----|---|---|
| 10 | Hidup | 17 | 1 | 0 |
| 11 | Hidup | 19 | 2 | 0 |
| 11 | Hidup | 52 | 1 | 0 |
| 11 | Hidup | 78 | 1 | 0 |
| 11 | Hidup | 53 | 2 | 0 |