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LAMPIRAN

Aplikasi/model.py

```
# Mengimpor library Keras dan turunannya
import pandas as pd
from keras.models import Sequential
from keras.layers import Dense

# Mengimpor dataset
dataset = pd.read_csv('DATA.csv')
X = dataset.iloc[:, 1:4].values
y = dataset.iloc[:, 4].values

# Resampling Data
from imblearn.over_sampling import SMOTE
sm = SMOTE(random_state=2)
X, y = sm.fit_sample(X, y.ravel())

# Membagi data ke test dan training set
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.2, random_state = 0)

# Mendefinisikan keras model
model = Sequential()
model.add(Dense(3, kernel_initializer = 'uniform', input_dim=3, activation='relu'))
model.add(Dense(3, kernel_initializer = 'uniform', activation='relu'))
model.add(Dense(1, kernel_initializer = 'uniform', activation='sigmoid'))

# Kompilasi keras model
model.compile(loss='binary_crossentropy', optimizer='adam', metrics=['accuracy'])

# Fit the keras model on the dataset
history = model.fit(X_train, y_train, validation_data=(X_test,y_test), epochs =100, batch_size=10, verbose = 1)

# Import plot
import matplotlib.pyplot as plt
```

```

# Summarize history for accuracy
plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
plt.title('model accuracy')
plt.ylabel('accuracy')
plt.xlabel('epoch')
plt.legend(['train', 'test'], loc='upper left')
plt.show()

# Summarize history for loss
plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('model loss')
plt.ylabel('loss')
plt.xlabel('epoch')
plt.legend(['train', 'test'], loc='upper left')
plt.show()

# Import library model
from tensorflow.python.keras.saving.save import load_model

# Simpan model
model.save("model.h5")
print("Model disimpan")

# Load model
loaded_model = load_model('model.h5')
print("Model di-load")

# Evaluasi keras model
_, accuracy = loaded_model.evaluate(X, y)
print('Accuracy: %.2f' % (accuracy*100))

# Memprediksi hasil test set
y_pred = loaded_model.predict_classes(X_test)
y_pred = (y_pred > 0.5)

# Membuat confusion matrix
from sklearn.metrics import confusion_matrix
cm = confusion_matrix(y_test, y_pred)
print ("Confusion Matrix")
print (cm)

```

```
from sklearn.metrics import classification_report
print (classification_report(y_test, y_pred))
```

Aplikasi/app.py

```
import numpy as np
from flask import Flask, request, jsonify, render_template, url_for
from tensorflow.python.keras.saving.save import load_model

app = Flask(__name__)

# Load model
loaded_model = load_model('model.h5')
print("Model diload")

@app.route('/')
def home():
    return render_template('index.html')

@app.route('/form')
def form():
    return render_template('pages/input/form.html')

@app.route('/about')
def about():
    return render_template('pages/about/about.html')

@app.route('/predict', methods=['POST'])
def predict():

    SKS = request.form['SKS']
    SKS = float(SKS)

    Semester = request.form['Semester']
    Semester = float(Semester)

    IPK = request.form['IPK']
    IPK = float(IPK)

    tes = [[SKS, Semester, IPK]]
```

```
prediction = loaded_model.predict_classes(tes)

if prediction == 1:
    prediksi = ("berpeluang lulus jika terus melanjutkan")
else :
    prediksi = ("memiliki peluang kecil untuk lulus, sebaiknya di
pertimbangkan")

    return render_template('pages/input/form.html', prediction_text='P
rediksi model menunjukkan anda {}'.format(prediksi))

@app.route('/results',methods=['POST'])
def results():

    data = request.get_json(force=True)
    prediction = loaded_model.predict([np.array(list(data.values()))])

    output = prediction[0]
    return jsonify(output)

if __name__ == "__main__":
    app.run(debug=True)
```

Aplikasi/templates/index.html

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <title>Admin | Dashboard</title>
  <!-- Tell the browser to be responsive to screen width -->
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <!-- Font Awesome -->
  <link rel="stylesheet" href="static/plugins/fontawesome-free/css/all.min.css">
  <!-- Ionicons -->
  <link rel="stylesheet" href="https://code.ionicframework.com/ionicons/2.0.1/css/ionicons.min.css">
  <!-- Tempusdominus Bbootstrap 4 -->
  <link rel="stylesheet" href="static/plugins/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-4.min.css">
  <!-- iCheck -->
  <link rel="stylesheet" href="static/plugins/ichheck-bootstrap/ichheck-bootstrap.min.css">
  <!-- JQVMap -->
  <link rel="stylesheet" href="static/plugins/jqvmap/jqvmap.min.css">
  <!-- Theme style -->
  <link rel="stylesheet" href="static/dist/css/adminlte.min.css">
  <!-- overlayScrollbars -->
  <link rel="stylesheet" href="static/plugins/overlayScrollbars/css/OverlayScrollbars.min.css">
  <!-- Daterange picker -->
  <link rel="stylesheet" href="static/plugins/daterangepicker/daterangepicker.css">
  <!-- summernote -->
  <link rel="stylesheet" href="static/plugins/summernote/summernote-bs4.css">
  <!-- Google Font: Source Sans Pro -->
  <link href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700" rel="stylesheet">
```



```

<!-- Favicon Website -->
<link rel="shortcut icon" href="static/dist/img/favicon.ico">

</head>
<body class="hold-transition sidebar-mini layout-fixed">
<div class="wrapper">

  <!-- Navbar -->
  <nav class="main-header navbar navbar-expand navbar-white navbar-
light">
    <!-- Left navbar links -->
    <ul class="navbar-nav">
      <li class="nav-item">
        <a class="nav-link" data-
widget="pushmenu" href="#" role="button"><i class="fas fa-
bars"></i></a>
      </li>
      <li class="nav-item d-none d-sm-inline-block">
        <a href="{{ url_for('home') }}" class="nav-link">Home</a>
      </li>
      <li class="nav-item d-none d-sm-inline-block">
        <a href="#" class="nav-link">Contact</a>
      </li>
    </ul>

    <!-- SEARCH FORM -->
    <form class="form-inline ml-3">
      <div class="input-group input-group-sm">
        <input class="form-control form-control-
navbar" type="search" placeholder="Search" aria-label="Search">
        <div class="input-group-append">
          <button class="btn btn-navbar" type="submit">
            <i class="fas fa-search"></i>
          </button>
        </div>
      </div>
    </form>

```

```

<!-- Right navbar links -->
<ul class="navbar-nav ml-auto">
  <li class="nav-item">
    <a class="nav-link" data-widget="control-sidebar" data-
slide="true" href="#" role="button">
      <i class="fas fa-th-large"></i>
    </a>
  </li>
</ul>
</nav>
<!-- /.navbar -->

<!-- Main Sidebar Container -->
<aside class="main-sidebar sidebar-dark-primary elevation-4">
  <!-- Brand Logo -->
  <a href="http://unhas.ac.id" target="_blank" class="brand-link">
    
    <span class="brand-text font-weight-light">Unhas</span>
  </a>

  <!-- Sidebar -->
  <div class="sidebar">
    <!-- Sidebar user panel (optional) -->
    <div class="user-panel mt-3 pb-3 mb-3 d-flex">
      <div class="image">
        
      </div>
      <div class="info">
        <a href="#" class="d-block">Zlatan Ibrahimović</a>
      </div>
    </div>

    <!-- Sidebar Menu -->
    <nav class="mt-2">

```

```

        <ul class="nav nav-pills nav-sidebar flex-column" data-
widget="treeview" role="menu" data-accordion="false">
            <!-- Add icons to the links using the .nav-icon class
                with font-awesome or any other icon font library -->
            <li class="nav-item">
                <a href="{{ url_for('home') }}" class="nav-link active">
                    <i class="nav-icon fas fa-tachometer-alt"></i>
                    <p>
                        Dashboard
                    </p>
                </a>
            </li>
            <li class="nav-header">INPUT DATA</li>
            <li class="nav-item">
                <a href="{{ url_for('form') }}" class="nav-link">
                    <i class="nav-icon fas fa-edit"></i>
                    <p>
                        Form
                    </p>
                </a>
            </li>
            <li class="nav-header">ABOUT</li>
            <li class="nav-item">
                <a href="{{ url_for('about') }}" class="nav-link">
                    <i class="nav-icon fas fa-info-circle"></i>
                    <p>About</p>
                </a>
            </li>

        </ul>
    </nav>
    <!-- /.sidebar-menu -->
</div>
<!-- /.sidebar -->
</aside>

<!-- Content Wrapper. Contains page content -->
<div class="content-wrapper">

```

```

<!-- Content Header (Page header) -->
<div class="content-header">
  <div class="container-fluid">
    <div class="row mb-2">
      <div class="col-sm-6">
        <h1 class="m-0 text-dark">Dashboard</h1>
      </div><!-- /.col -->
      <div class="col-sm-6">
        <ol class="breadcrumb float-sm-right">
          <li class="breadcrumb-
item"><a href="{ url_for('home') }">Home</a></li>
          <li class="breadcrumb-item active">Dashboard</li>
        </ol>
      </div><!-- /.col -->
    </div><!-- /.row -->
  </div><!-- /.container-fluid -->
</div>
<!-- /.content-header -->

<!-- Main content -->
<section class="content">
  <div class="container-fluid">

    <!-- Main row -->
    <div class="row">
      <div class="col-md-12">
        <div class="card card-primary card-outline">
          <div class="card-header">
            <h3 class="card-title">
              <i class="fas fa-tachometer-alt"></i>
              Dashboard
            </h3>
          </div>
          <div class="card-body pad table-responsive">
            <h2> Selamat Datang</h2>
            <p style="text-
indent: 45px;" align= "justify">Model Machine Learning ini dapat digun
akan untuk memprediksi seorang mahasiswa akan lulus atau tidak. Denga

```

n model ini, diharapkan dapat membantu mahasiswa atau pun perguruan tinggi untuk membuat keputusan apakah akan memindahkan mahasiswa tersebut atau tetap melanjutkan studinya

```
        </div>
        <!-- /.card -->
    </div>
</div>
<!-- /.col -->
</div>
<!-- ./row -->
</div>
<!-- /.container-fluid -->
</section>
<!-- /.content -->
</div>
<!-- /.content-wrapper -->

<footer class="main-footer">
    <strong>Copyright &copy; 2021 <!--
- <a href="http://adminlte.io">AdminLTE.io</a> -->.</strong>
    All rights reserved.
    <div class="float-right d-none d-sm-inline-block">
        <b>Version</b> 1.0
    </div>
</footer>

<!-- Control Sidebar -->
<aside class="control-sidebar control-sidebar-dark">
    <!-- Control sidebar content goes here -->
</aside>
<!-- /.control-sidebar -->
</div>
<!-- ./wrapper -->

<!-- jQuery -->
<script src="static/plugins/jquery/jquery.min.js"></script>
<!-- jQuery UI 1.11.4 -->
<script src="static/plugins/jquery-ui/jquery-ui.min.js"></script>
```

```

<!-- Resolve conflict in jQuery UI tooltip with Bootstrap tooltip -->
<script>
    $.widget.bridge('uibutton', $.ui.button)
</script>
<!-- Bootstrap 4 -->
<script src="static/plugins/bootstrap/js/bootstrap.bundle.min.js"></sc
ript>
<!-- ChartJS -->
<script src="static/plugins/chart.js/Chart.min.js"></script>
<!-- Sparkline -->
<script src="static/plugins/sparklines/sparkline.js"></script>
<!-- JQVMap -->
<script src="static/plugins/jqvmap/jquery.vmap.min.js"></script>
<script src="static/plugins/jqvmap/maps/jquery.vmap.usa.js"></script>
<!-- jQuery Knob Chart -->
<script src="static/plugins/jquery-knob/jquery.knob.min.js"></script>
<!-- daterangepicker -->
<script src="static/plugins/moment/moment.min.js"></script>
<script src="static/plugins/daterangepicker/daterangepicker.js"></scri
pt>
<!-- Tempusdominus Bootstrap 4 -->
<script src="static/plugins/tempusdominus-bootstrap-
4/js/tempusdominus-bootstrap-4.min.js"></script>
<!-- Summernote -->
<script src="static/plugins/summernote/summernote-
bs4.min.js"></script>
<!-- overlayScrollbars -->
<script src="static/plugins/overlayScrollbars/js/jquery.overlayScrollb
ars.min.js"></script>
<!-- AdminLTE App -->
<script src="static/dist/js/adminlte.js"></script>
<!-- AdminLTE dashboard demo (This is only for demo purposes) -->
<script src="static/dist/js/pages/dashboard.js"></script>
<!-- AdminLTE for demo purposes -->
<script src="static/dist/js/demo.js"></script>
</body>
</html>

```

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <title>Admin | Form</title>
  <!-- Tell the browser to be responsive to screen width -->
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <!-- Font Awesome -->
  <link rel="stylesheet" href="static/plugins/fontawesome-free/css/all.min.css">
  <!-- Ionicons -->
  <link rel="stylesheet" href="https://code.ionicframework.com/ionicons/2.0.1/css/ionicons.min.css">
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  <link rel="stylesheet" href="static/plugins/daterangepicker/daterangepicker.css">
  <!-- summernote -->
  <link rel="stylesheet" href="static/plugins/summernote/summernote-bs4.css">
  <!-- Google Font: Source Sans Pro -->
  <link href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700" rel="stylesheet">
```

```

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<div class="wrapper">

<!-- Navbar -->
<nav class="main-header navbar navbar-expand navbar-white navbar-
light">
  <!-- Left navbar links -->
  <ul class="navbar-nav">
    <li class="nav-item">
      <a class="nav-link" data-
widget="pushmenu" href="#" role="button"><i class="fas fa-
bars"></i></a>
    </li>
    <li class="nav-item d-none d-sm-inline-block">
      <a href="{ { url_for('home') } }" class="nav-link">Home</a>
    </li>
    <li class="nav-item d-none d-sm-inline-block">
      <a href="#" class="nav-link">Contact</a>
    </li>
  </ul>

  <!-- SEARCH FORM -->
  <form class="form-inline ml-3">
    <div class="input-group input-group-sm">
      <input class="form-control form-control-
navbar" type="search" placeholder="Search" aria-label="Search">
      <div class="input-group-append">
        <button class="btn btn-navbar" type="submit">
          <i class="fas fa-search"></i>
        </button>
      </div>
    </div>
  </form>

  <!-- Right navbar links -->

```



```

<ul class="navbar-nav ml-auto">
  <li class="nav-item">
    <a class="nav-link" data-widget="control-sidebar" data-
slide="true" href="#" role="button">
      <i class="fas fa-th-large"></i>
    </a>
  </li>
</ul>
</nav>
<!-- /.navbar -->

<!-- Main Sidebar Container -->
<aside class="main-sidebar sidebar-dark-primary elevation-4">
  <!-- Brand Logo -->
  <a href="http://unhas.ac.id" target="_blank" class="brand-link">
    
    <span class="brand-text font-weight-light">Unhas</span>
  </a>

  <!-- Sidebar -->
  <div class="sidebar">
    <!-- Sidebar user panel (optional) -->
    <div class="user-panel mt-3 pb-3 mb-3 d-flex">
      <div class="image">
        
      </div>
      <div class="info">
        <a href="#" class="d-block">Zlatan Ibrahimović</a>
      </div>
    </div>

    <!-- Sidebar Menu -->
    <nav class="mt-2">
      <ul class="nav nav-pills nav-sidebar flex-column" data-
widget="treeview" role="menu" data-accordion="false">

```

```

        <!-- Add icons to the links using the .nav-icon class
            with font-awesome or any other icon font library -->
        <li class="nav-item">
            <a href="{{ url_for('home') }}" class="nav-link">
                <i class="nav-icon fas fa-tachometer-alt"></i>
                <p>
                    Dashboard
                </p>
            </a>
        </li>
        <li class="nav-header">INPUT DATA</li>
        <li class="nav-item">
            <a href="{{ url_for('form') }}" class="nav-link active">
                <i class="nav-icon fas fa-edit"></i>
                <p>
                    Form
                </p>
            </a>
        </li>
        <li class="nav-header">ABOUT</li>
        <li class="nav-item">
            <a href="{{ url_for('about') }}" class="nav-link">
                <i class="nav-icon fas fa-info-circle"></i>
                <p>About</p>
            </a>
        </li>

    </ul>
</nav>
<!-- /.sidebar-menu -->
</div>
<!-- /.sidebar -->
</aside>

<!-- Content Wrapper. Contains page content -->
<div class="content-wrapper">
    <!-- Content Header (Page header) -->
    <div class="content-header">

```

```

<div class="container-fluid">
  <div class="row mb-2">
    <div class="col-sm-6">
      <h1 class="m-0 text-dark">Form</h1>
    </div><!-- /.col -->
    <div class="col-sm-6">
      <ol class="breadcrumb float-sm-right">
        <li class="breadcrumb-
item"><a href="{ url_for('home') }">Home</a></li>
        <li class="breadcrumb-item active">Form</li>
      </ol>
    </div>
  <!-- /.col -->
</div>
<!-- /.row -->
</div>
<!-- /.container-fluid -->
</div>
<!-- /.content-header -->

<!-- Main content -->
<section class="content">
  <div class="container-fluid">

    <!-- Main row -->
    <div class="row">
      <!-- <div class="col-md-12">
      <div class="card card-info card-outline">
        <div class="card-header">
          <h3 class="card-title">
            <i class="fas fa-info-circle"></i>
            Form
          </h3>
        </div>
        <div class="card-body pad table-responsive">
          <h2> Ini adalah halaman form </h2>
          <p>Form Form Form </p>
        </div> -->

```

```

        <!-- /.card -->
    <!-- </div>
</div> -->
<!-- /.col -->
<div class="col-md-12">
    <!-- general form elements -->
    <div class="card card-info">
        <div class="card-header">
            <h3 class="card-title">FORM</h3>
        </div>
        <!-- /.card-header -->

        <!-- form start -->
        <form role="form" action="{ { url_for('predict') }}" metho
d="post" >
            <div class="card-body">
                <label for="SKS">Jumlah SKS yang telah dilulusi</lab
el>

                <input type="text" class="form-
control" name="SKS" placeholder="Jumlah SKS" required="required" />

                <label for="Semester">Jumlah Semester yang telah dit
empuh</label>

                <input type="text" class="form-
control" name="Semester" placeholder="Jumlah Semester" required="requi
red" />

                <label for="IPK">Indeks Prestasi Kumulatif (IPK)</la
bel>

                <input type="text" class="form-
control" name="IPK" placeholder="IPK" required="required" />

                <!-- <div class="form-group">
                    <label for="IPK">Indeks Prestasi Kumulatif (IPK)</
label>

                    <input type="text" class="form-
control" id="IPK" placeholder="IPK">
                </div>

```

```

        <div class="form-group">
            <label for="Semester">Jumlah Semester yang telah d
itempuh</label>
            <input type="text" class="form-
control" id="Semester" placeholder="Jumlah Semester">
        </div>
        <div class="form-group">
            <label for="SKS">Jumlah SKS yang telah dilulusi</l
abel>
            <input type="text" class="form-
control" id="SKS" placeholder="Jumlah SKS">
        </div> -->
    </div>
    <!-- /.card-body -->
    <div class="card-footer">
        <button type="submit" class="btn bg-gradient-
primary">Submit</button>
    </div>

</form>
</div>
<!-- /.card -->

<div class="card card-info">
    <div class="card-header">
        <h3 class="card-title">HASIL PREDIKSI</h3>
    </div>
    <!-- /.card-header -->

    <!-- form start -->
    <form role="form">
        <div class="card-body">
            {{ prediction_text }}
        </div>
        <!-- /.card-body -->
    </form>
</div>
<!-- /.card -->

```

```

        </div>
        <!--/.col (left) -->

    </div>
    <!-- ./row -->
</div>
<!-- /.container-fluid -->
</section>
<!-- /.content -->
</div>
<!-- /.content-wrapper -->
<footer class="main-footer">
    <strong>Copyright &copy; 2021 <-
- <a href="http://adminlte.io">AdminLTE.io</a> -->.</strong>
    All rights reserved.
    <div class="float-right d-none d-sm-inline-block">
        <b>Version</b> 1.0
    </div>
</footer>

<!-- Control Sidebar -->
<aside class="control-sidebar control-sidebar-dark">
    <!-- Control sidebar content goes here -->
</aside>
<!-- /.control-sidebar -->
</div>
<!-- ./wrapper -->

<!-- jQuery -->
<script src="static/plugins/jquery/jquery.min.js"></script>
<!-- jQuery UI 1.11.4 -->
<script src="static/plugins/jquery-ui/jquery-ui.min.js"></script>
<!-- Resolve conflict in jQuery UI tooltip with Bootstrap tooltip -->
<script>
    $.widget.bridge('uibutton', $.ui.button)
</script>
<!-- Bootstrap 4 -->

```

```
<script src="static/plugins/bootstrap/js/bootstrap.bundle.min.js"></script>
<!-- ChartJS -->
<script src="static/plugins/chart.js/Chart.min.js"></script>
<!-- Sparkline -->
<script src="static/plugins/sparklines/sparkline.js"></script>
<!-- JQVMap -->
<script src="static/plugins/jqvmap/jquery.vmap.min.js"></script>
<script src="static/plugins/jqvmap/maps/jquery.vmap.usa.js"></script>
<!-- jQuery Knob Chart -->
<script src="static/plugins/jquery-knob/jquery.knob.min.js"></script>
<!-- daterangepicker -->
<script src="static/plugins/moment/moment.min.js"></script>
<script src="static/plugins/daterangepicker/daterangepicker.js"></script>
<!-- Tempusdominus Bootstrap 4 -->
<script src="static/plugins/tempusdominus-bootstrap-4/js/tempusdominus-bootstrap-4.min.js"></script>
<!-- Summernote -->
<script src="static/plugins/summernote/summernote-bs4.min.js"></script>
<!-- overlayScrollbars -->
<script src="static/plugins/overlayScrollbars/js/jquery.overlayScrollbars.min.js"></script>
<!-- AdminLTE App -->
<script src="static/dist/js/adminlte.js"></script>
<!-- AdminLTE dashboard demo (This is only for demo purposes) -->
<script src="static/dist/js/pages/dashboard.js"></script>
<!-- AdminLTE for demo purposes -->
<script src="static/dist/js/demo.js"></script>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <title>Admin | About</title>
  <!-- Tell the browser to be responsive to screen width -->
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <!-- Font Awesome -->
  <link rel="stylesheet" href="static/plugins/fontawesome-free/css/all.min.css">
  <!-- Ionicons -->
  <link rel="stylesheet" href="https://code.ionicframework.com/ionicons/2.0.1/css/ionicons.min.css">
  <!-- Tempusdominus Bbootstrap 4 -->
  <link rel="stylesheet" href="static/plugins/tempusdominus-bootstrap-4/css/tempusdominus-bootstrap-4.min.css">
  <!-- iCheck -->
  <link rel="stylesheet" href="static/plugins/ichheck-bootstrap/ichheck-bootstrap.min.css">
  <!-- JQVMap -->
  <link rel="stylesheet" href="static/plugins/jqvmap/jqvmap.min.css">
  <!-- Theme style -->
  <link rel="stylesheet" href="static/dist/css/adminlte.min.css">
  <!-- overlayScrollbars -->
  <link rel="stylesheet" href="static/plugins/overlayScrollbars/css/OverlayScrollbars.min.css">
  <!-- Daterange picker -->
  <link rel="stylesheet" href="static/plugins/daterangepicker/daterangepicker.css">
  <!-- summernote -->
  <link rel="stylesheet" href="static/plugins/summernote/summernote-bs4.css">
  <!-- Google Font: Source Sans Pro -->
  <link href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700" rel="stylesheet">
```



```

<!-- Favicon Website -->
<link rel="shortcut icon" href="static/dist/img/favicon.ico">
<style type="text/css">
  img {
    max-width: 100%;
    height: auto;
  }
</style>
</head>
<body class="hold-transition sidebar-mini layout-fixed">
<div class="wrapper">

  <!-- Navbar -->
  <nav class="main-header navbar navbar-expand navbar-white navbar-
light">
    <!-- Left navbar links -->
    <ul class="navbar-nav">
      <li class="nav-item">
        <a class="nav-link" data-
widget="pushmenu" href="#" role="button"><i class="fas fa-
bars"></i></a>
      </li>
      <li class="nav-item d-none d-sm-inline-block">
        <a href="{ { url_for('home') } }" class="nav-link">Home</a>
      </li>
      <li class="nav-item d-none d-sm-inline-block">
        <a href="#" class="nav-link">Contact</a>
      </li>
    </ul>

    <!-- SEARCH FORM -->
    <form class="form-inline ml-3">
      <div class="input-group input-group-sm">
        <input class="form-control form-control-
navbar" type="search" placeholder="Search" aria-label="Search">
        <div class="input-group-append">
          <button class="btn btn-navbar" type="submit">
            <i class="fas fa-search"></i>

```

```

        </button>
    </div>
</div>
</form>

<!-- Right navbar links -->
<ul class="navbar-nav ml-auto">
    <li class="nav-item">
        <a class="nav-link" data-widget="control-sidebar" data-
slide="true" href="#" role="button">
            <i class="fas fa-th-large"></i>
        </a>
    </li>
</ul>
</nav>
<!-- /.navbar -->

<!-- Main Sidebar Container -->
<aside class="main-sidebar sidebar-dark-primary elevation-4">
    <!-- Brand Logo -->
    <a href="http://unhas.ac.id" target="_blank" class="brand-link">
        
        <span class="brand-text font-weight-light">Unhas</span>
    </a>

    <!-- Sidebar -->
    <div class="sidebar">
        <!-- Sidebar user panel (optional) -->
        <div class="user-panel mt-3 pb-3 mb-3 d-flex">
            <div class="image">
                
            </div>
            <div class="info">
                <a href="#" class="d-block">Zlatan Ibrahimović</a>
            </div>
        </div>
    </div>

```

```

</div>

<!-- Sidebar Menu -->
<nav class="mt-2">
  <ul class="nav nav-pills nav-sidebar flex-column" data-
widget="treeview" role="menu" data-accordion="false">
    <!-- Add icons to the links using the .nav-icon class
with font-awesome or any other icon font library -->
    <li class="nav-item">
      <a href="{{ url_for('home') }}" class="nav-link">
        <i class="nav-icon fas fa-tachometer-alt"></i>
      <p>
        Dashboard
      </p>
      </a>
    </li>

    <li class="nav-header">INPUT DATA</li>
    <li class="nav-item">
      <a href="{{ url_for('form') }}" class="nav-link">
        <i class="nav-icon fas fa-edit"></i>
      <p>
        Form
      </p>
      </a>
    </li>
    <li class="nav-header">ABOUT</li>
    <li class="nav-item">
      <a href="{{ url_for('about') }}" class="nav-link active">
        <i class="nav-icon fas fa-info-circle"></i>
      <p>About</p>
      </a>
    </li>

  </ul>
</nav>
<!-- /.sidebar-menu -->
</div>

```

```

<!-- /.sidebar -->
</aside>

<!-- Content Wrapper. Contains page content -->
<div class="content-wrapper">
  <!-- Content Header (Page header) -->
  <div class="content-header">
    <div class="container-fluid">
      <div class="row mb-2">
        <div class="col-sm-6">
          <h1 class="m-0 text-dark">About</h1>
        </div><!-- /.col -->
        <div class="col-sm-6">
          <ol class="breadcrumb float-sm-right">
            <li class="breadcrumb-
item"><a href="{ url_for('home') }">Home</a></li>
            <li class="breadcrumb-item active">About</li>
          </ol>
        </div>
      <!-- /.col -->
    </div>
  <!-- /.row -->
</div>
<!-- /.container-fluid -->
</div>
<!-- /.content-header -->

<!-- Main content -->
<section class="content">
  <div class="container-fluid">

    <!-- Main row -->
    <div class="row">
      <div class="col-md-12">
        <div class="card card-secondary card-outline">
          <div class="card-header">
            <h3 class="card-title">
              <i class="fas fa-info-circle"></i>

```

```

        About
    </h3>
</div>
<div class="card-body">
    <h3><i>Neural Network</i></h3>
    <p style="text-indent: 45px;" align="justify"><i>Neural Network</i> merupakan jaringan dari sekelompok unit pemroses kecil yang dimodelkan berdasarkan jaringan saraf manusia. <i>Neural Network</i> adalah salah satu representasi buatan dari otak manusia yang selalu mencoba untuk menstimulasikan proses pembelajaran pada otak manusia tersebut. Adapun struktur <i>Neural Network</i> yang dipakai adalah <i>Artificial Neural Network</i>.
    </p>
    <p style="text-indent: 45px;" align="justify"><i>Artificial Neural Network</i> (ANN) terinspirasi dari kesadaran atas <i>complex learning system</i> pada otak yang terdiri dari set-set neuron yang saling berhubungan secara dekat. Jaringan neuron mampu melakukan tugas yang sangat kompleks seperti klasifikasi dan pemahaman pola. ANN dapat memperkirakan rentang yang cukup luas suatu model statistika dan fleksibel dalam menggambarkan model (linier maupun non linier).</p>
    </div>
<!-- /.card -->
</div>
<!-- /.col -->

<div class="col-md-12">
    <div class="card card-secondary card-outline">
        <div class="card-header">
            <h3 class="card-title">
                <i class="fas fa-chart-line"></i>
                Model Accuracy and <i>Loss Function</i> Graph
            </h3>
        </div>
        <div class="card-body">
            <div class="row">

```

```

        <div class="col-12 col-md-6">
            <center><h4>Model Accuracy</h4>
            <!-- Model Accuracy Graph -->
            

            </center>
        </div>
        <div class="col-12 col-md-6">
            <center><h4><i>Loss Function</i></h4>
            <!-- Loss Function Graph -->
            

            </center>
        </div>
    </div>
</div>
<!-- /.card -->
</div>
</div>
<!-- /.col -->
</div>
<!-- ./row -->
</div>
<!-- /.container-fluid -->
</section>
<!-- /.content -->
</div>
<!-- /.content-wrapper -->
<footer class="main-footer">
    <strong>Copyright &copy; 2021 <!--
- <a href="http://adminlte.io">AdminLTE.io</a> -->.</strong>
    All rights reserved.
    <div class="float-right d-none d-sm-inline-block">
        <b>Version</b> 1.0
    </div>
</footer>

<!-- Control Sidebar -->

```

```

<aside class="control-sidebar control-sidebar-dark">
  <!-- Control sidebar content goes here -->
</aside>
<!-- /.control-sidebar -->
</div>
<!-- ./wrapper -->

<!-- jQuery -->
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<!-- jQuery UI 1.11.4 -->
<script src="static/plugins/jquery-ui/jquery-ui.min.js"></script>
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