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LAMPIRAN



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Lampiran 1. Hasil standarisasi variabel prediktor

| Z_1 | Z_2 | Z_3 | Z_4 | ... | Z_{13} | Z_{14} | Z_{15} |
|----------|---|----------|----------|-----|----------|----------|----------|
| 0.226973 | 0.499327 | 1.038484 | 1.318695 | ... | -0.50161 | 0.042359 | 0.997964 |
| 0.245391 | 0.189659 | 0.519187 | 0.806954 | ... | -0.18599 | 0.449652 | 0.899308 |
| 0.208555 | 0.47504 | 0.167344 | 0.893088 | ... | -0.03987 | -0.39637 | 0.934542 |
| 0.226973 | 0.244306 | 0.268946 | 0.155032 | ... | -0.00985 | -0.2597 | -0.27048 |
| 0.162511 | 0.608622 | 0.169225 | -0.556 | ... | -0.13699 | -0.45253 | -0.05907 |
| 0.236182 | 0.24127 | -0.03962 | -0.44791 | ... | 0.00074 | 0.267125 | -0.35504 |
| 0.199347 | 0.390033 | 0.329154 | 0.540105 | ... | -0.13169 | -0.44521 | -0.84127 |
| 0.208555 | 0.575227 | 0.246367 | -0.17768 | ... | -0.30959 | 0.196561 | -0.27048 |
| 0.263809 | 0.238234 | -0.4385 | -0.53573 | ... | 0.935249 | -0.65195 | -0.03793 |
| 0.2546 | 0.596478 | 1.401616 | 1.725723 | ... | 1.557224 | -0.58251 | 1.540575 |
| 0.208555 | 0.338421 | 1.057299 | -0.52053 | ... | 3.488483 | -0.26706 | 1.350309 |
| 0.263809 | 0.265558 | 0.805177 | -0.82454 | ... | 0.099179 | 2.941512 | 1.991576 |
| 0.245391 | 0.344493 | 0.419467 | -0.41075 | ... | 0.160979 | 2.850169 | 0.363744 |
| 0.245391 | 0.61773 | 1.18336 | 2.107418 | ... | 1.524558 | -0.29468 | -0.65101 |
| 0.236182 | 0.216982 | 0.861622 | -0.21991 | ... | 0.419658 | 3.223926 | 0.187572 |
| 0.208555 | 0.195731 | 1.147612 | -0.5864 | ... | 0.499115 | 0.06059 | 2.047952 |
| 0.217764 | 0.135011 | 1.025313 | 1.977372 | ... | 1.285303 | -0.53427 | -1.3557 |
| 0.125675 | 0.435572 | 0.8842 | 0.700552 | ... | -0.16568 | -0.00987 | -1.27818 |
| -0.07692 | -0.40843 | -1.10268 | -0.96978 | ... | -1.42243 | 0.356897 | -1.03859 |
| 0.217764 | 0.11376 | -1.59563 | -1.54233 | ... | -0.73292 | -0.38416 | 0.307369 |
| 0.088839 | 0.523615 | -0.04903 | -1.39539 | ... | 0.179961 | -0.58282 | -0.36209 |
| 0.226973 | 0.550939 | -0.35572 | -0.68605 | ... | 0.654499 | -0.53884 | -0.2141 |
| 0.245391 | 0.365745 | 0.758139 | 1.013001 | ... | 0.764415 | -0.49919 | 0.490588 |
| -0.08613 | -0.78792 | 0.225671 | 0.474237 | ... | -0.76647 | -0.67144 | -0.42551 |
| 0.226973 | -0.49951 | -0.52129 | -0.00541 | ... | 0.011776 | -0.53877 | 1.047293 |
| 0.116466 | -1.21903 | -0.47613 | 0.386414 | ... | -0.58327 | -0.34436 | -1.17248 |
| 0.17172 | 0.329313 | -0.25411 | -0.56107 | ... | 0.163628 | 0.02552 | -0.20001 |
| 0.107257 | 0.350565 | -0.52505 | 0.01823 | ... | -0.5974 | -0.4141 | -1.03154 |
| 0.088839 | 0.41432 | -1.08762 | -0.62694 | ... | -0.17716 | -0.54375 | -1.09496 |
| - |  | 1.30588 | -0.45973 | ... | -0.77353 | -0.56216 | -1.65167 |
| - | | 1.14122 | 0.383036 | ... | -0.96776 | -0.43284 | 1.195277 |
| 0 | | 1.15063 | 0.31379 | ... | -1.16375 | -0.63773 | -0.2141 |
| - | | 1.087125 | 0.342502 | ... | -1.35357 | -0.51433 | 0.539916 |
| - | | -3.5938 | -2.62999 | ... | -1.72525 | 0.144333 | -1.36979 |

Lampiran 2. Matriks Varians Kovarians

| | | | | | | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1.179181 | 3.275584 | 3.882649 | 3.09472 | 0.417331 | 0.37654 | 0.941979 | -71.5239 | -0.10144 | -5.38561 | 9256.109 | 176.7534 | 864.7119 | 1.039177 | 0.448401 |
| 3.275584 | 10.8494 | 12.72164 | 8.518768 | 1.268597 | 0.992374 | 3.378408 | -233.283 | -0.34831 | -19.7121 | 33479.39 | 812.5377 | 3515.8 | 109.9606 | 1.360079 |
| 3.882649 | 12.72164 | 28.24788 | 21.53864 | 2.286691 | 2.401114 | 7.495116 | -407.178 | -0.80876 | -36.2713 | 93087.99 | 3762.279 | 7694.474 | 1134.53 | 3.45601 |
| 3.09472 | 8.518768 | 21.53864 | 35.05779 | 3.401728 | 1.270836 | 3.904985 | -287.017 | -0.32483 | -16.2412 | -26970.8 | -1144.92 | 4220.653 | -1245.48 | 0.853777 |
| 0.417331 | 1.268597 | 2.286691 | 3.401728 | 0.544165 | 0.142231 | 0.413395 | -33.3335 | -0.0344 | -1.5189 | -585.298 | 63.39078 | 362.9163 | -118.438 | 0.064487 |
| 0.37654 | 0.992374 | 2.401114 | 1.270836 | 0.142231 | 0.833831 | 1.075409 | -35.905 | -0.08074 | -3.50453 | 21419.42 | 781.6034 | 593.6707 | 321.0014 | 0.653949 |
| 0.941979 | 3.378408 | 7.495116 | 3.904985 | 0.413395 | 1.075409 | 5.868861 | -155.777 | -0.44399 | -18.857 | 51858.98 | 1941.929 | 3461.816 | 802.803 | 1.129233 |
| -71.5239 | -233.283 | -407.178 | -287.017 | -33.3335 | -35.905 | -155.777 | 7940.561 | 16.42167 | 718.9085 | -1179538 | -93832.2 | -157774 | -3803.1 | -44.3526 |
| -0.10144 | -0.34831 | -0.80876 | -0.32483 | -0.0344 | -0.08074 | -0.44399 | 16.42167 | 0.05414 | 1.707218 | -4775.82 | -322.125 | -443.167 | -64.7435 | -0.12123 |
| -5.38561 | -19.7121 | -36.2713 | -16.2412 | -1.5189 | -3.50453 | -18.857 | 718.9085 | 1.707218 | 86.2485 | -190708 | -7396 | -15375.7 | -2557.03 | -5.29835 |
| 9256.109 | 33479.39 | 93087.99 | -26970.8 | -585.298 | 21419.42 | 51858.98 | -1179538 | -4775.82 | -190708 | 2.08E+09 | 36952331 | 27347573 | 45121011 | 25707.72 |
| 176.7534 | 812.5377 | 3762.279 | -1144.92 | 63.39078 | 781.6034 | 1941.929 | -93832.2 | -322.125 | -7396 | 36952331 | 7575414 | 4148823 | 141209.5 | 1111.602 |
| 864.7119 | 3515.8 | 7694.474 | 4220.653 | 362.9163 | 593.6707 | 3461.816 | -157774 | -443.167 | -15375.7 | 27347573 | 4148823 | 5131865 | 40808.88 | 1035.697 |
| 1.039177 | 109.9606 | 1134.53 | -1245.48 | -118.438 | 321.0014 | 802.803 | -3803.1 | -64.7435 | -2557.03 | 45121011 | 141209.5 | 40808.88 | 1130005 | 389.769 |
| 0.448401 | 1.360079 | 3.45601 | 0.853777 | 0.064487 | 0.653949 | 1.129233 | -44.3526 | -0.12123 | -5.29835 | 25707.72 | 1111.602 | 1035.697 | 389.769 | 2.013746 |



Lampiran 3. Nilai Eigen dan Vektor Eigen

| | | | | | | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1.179181 | 3.275584 | 3.882649 | 3.09472 | 0.417331 | 0.37654 | 0.941979 | -71.5239 | -0.10144 | -5.38561 | 9256.109 | 176.7534 | 864.7119 | 1.039177 | 0.448401 |
| 3.275584 | 10.8494 | 12.72164 | 8.518768 | 1.268597 | 0.992374 | 3.378408 | -233.283 | -0.34831 | -19.7121 | 33479.39 | 812.5377 | 3515.8 | 109.9606 | 1.360079 |
| 3.882649 | 12.72164 | 28.24788 | 21.53864 | 2.286691 | 2.401114 | 7.495116 | -407.178 | -0.80876 | -36.2713 | 93087.99 | 3762.279 | 7694.474 | 1134.53 | 3.45601 |
| 3.09472 | 8.518768 | 21.53864 | 35.05779 | 3.401728 | 1.270836 | 3.904985 | -287.017 | -0.32483 | -16.2412 | -26970.8 | -1144.92 | 4220.653 | -1245.48 | 0.853777 |
| 0.417331 | 1.268597 | 2.286691 | 3.401728 | 0.544165 | 0.142231 | 0.413395 | -33.3335 | -0.0344 | -1.5189 | -585.298 | 63.39078 | 362.9163 | -118.438 | 0.064487 |
| 0.37654 | 0.992374 | 2.401114 | 1.270836 | 0.142231 | 0.833831 | 1.075409 | -35.905 | -0.08074 | -3.50453 | 21419.42 | 781.6034 | 593.6707 | 321.0014 | 0.653949 |
| 0.941979 | 3.378408 | 7.495116 | 3.904985 | 0.413395 | 1.075409 | 5.868861 | -155.777 | -0.44399 | -18.857 | 51858.98 | 1941.929 | 3461.816 | 802.803 | 1.129233 |
| -71.5239 | -233.283 | -407.178 | -287.017 | -33.3335 | -35.905 | -155.777 | 7940.561 | 16.42167 | 718.9085 | -1179538 | -93832.2 | -157774 | -3803.1 | -44.3526 |
| -0.10144 | -0.34831 | -0.80876 | -0.32483 | -0.0344 | -0.08074 | -0.44399 | 16.42167 | 0.05414 | 1.707218 | -4775.82 | -322.125 | -443.167 | -64.7435 | -0.12123 |
| -5.38561 | -19.7121 | -36.2713 | -16.2412 | -1.5189 | -3.50453 | -18.857 | 718.9085 | 1.707218 | 86.2485 | -190708 | -7396 | -15375.7 | -2557.03 | -5.29835 |
| 9256.109 | 33479.39 | 93087.99 | -26970.8 | -585.298 | 21419.42 | 51858.98 | -1179538 | -4775.82 | -190708 | 2.08E+09 | 36952331 | 27347573 | 45121011 | 25707.72 |
| 176.7534 | 812.5377 | 3762.279 | -1144.92 | 63.39078 | 781.6034 | 1941.929 | -93832.2 | -322.125 | -7396 | 36952331 | 7575414 | 4148823 | 141209.5 | 1111.602 |
| 864.7119 | 3515.8 | 7694.474 | 4220.653 | 362.9163 | 593.6707 | 3461.816 | -157774 | -443.167 | -15375.7 | 27347573 | 4148823 | 5131865 | 40808.88 | 1035.697 |
| 1.039177 | 109.9606 | 1134.53 | -1245.48 | -118.438 | 321.0014 | 802.803 | -3803.1 | -64.7435 | -2557.03 | 45121011 | 141209.5 | 40808.88 | 1130005 | 389.769 |
| 0.448401 | 1.360079 | 3.45601 | 0.853777 | 0.064487 | 0.653949 | 1.129233 | -44.3526 | -0.12123 | -5.29835 | 25707.72 | 1111.602 | 1035.697 | 389.769 | 2.013746 |



Lampiran 4. Nilai Skor Komponen Utama

| | W1 | W2 | W3 | W4 |
|--|-------------|-------------|-------------|-------------|
| | -1.17975194 | 1.06528793 | -1.60550163 | 1.20251741 |
| | -0.79955515 | -0.07296388 | -1.43645458 | 0.9676201 |
| | -0.78193521 | 1.16714517 | -0.6977658 | 0.87325247 |
| | -0.80143926 | 0.35516358 | 0.04621773 | -0.44390075 |
| | -0.42529797 | 0.21200793 | 0.16829449 | -0.34259179 |
| | -0.15357943 | -0.49897166 | 0.12368878 | -0.90547882 |
| | -0.03119705 | 1.4639227 | 0.10925874 | -0.48435937 |
| | -0.33560784 | -0.14530705 | -0.12128945 | -0.70511642 |
| | 0.15575511 | -0.00192744 | 1.4064428 | -0.92173721 |
| | -2.07549006 | 1.22377208 | 0.83107478 | 0.26983695 |
| | -5.29478661 | -2.54908245 | 4.22835397 | 2.58728856 |
| | -3.02787313 | -4.28276797 | -2.38289259 | 0.67639659 |
| | -2.19258697 | -3.16557008 | -1.38391766 | -1.57246894 |
| | -3.76719988 | 2.47054372 | 1.04524011 | -1.13103201 |
| | -2.62495522 | -3.12261959 | -1.9628483 | -0.84823682 |
| | -1.72291963 | -0.62028601 | 0.6637482 | 0.07288993 |
| | -2.46926199 | 1.38299016 | 0.99177014 | -0.77487164 |
| | 0.85113798 | 1.71967257 | -0.45833232 | -0.42377488 |
| | 3.29521178 | 0.07744886 | -0.97060265 | -0.43129206 |
| | 1.4924112 | -0.57898151 | 0.5692827 | -1.10116001 |
| | 0.44839009 | -0.04211691 | 0.70861414 | -0.73939568 |
| | 0.34189257 | 0.19474119 | 0.71498723 | -0.57387213 |
| | -2.20666822 | 0.82912311 | 0.06779918 | 0.35459805 |
| | 0.18194987 | 0.63441175 | 0.18655913 | -0.10326892 |
| | -0.40048492 | -0.40890553 | 0.41812797 | 0.5622281 |
| | 1.70372083 | 0.61194214 | -0.05775289 | 0.15467046 |
| | -0.39059457 | -0.29247313 | -0.06642599 | -0.62621438 |
| | 0.83558873 | 0.90872863 | -0.55535161 | -0.10299969 |
| | 1.95398806 | 0.7776856 | 0.5182191 | -0.56771401 |
| | 149 | 0.89431145 | 0.13091759 | -0.26018158 |
| | 372 | 1.12348161 | -1.54678647 | 2.52194473 |
| | 584 | 1.29165758 | -0.81797166 | 0.91008501 |
| | 516 | 1.13863485 | -0.83630998 | 1.52205459 |
| | 926 | -3.76069938 | 1.97160681 | 0.38428412 |

