## Table 16: Performance Metrics of the Naive Bayes Model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| param\_var\_smoothing | mean\_test\_accuracy | mean\_test\_precision | mean\_test\_recall | mean\_test\_f1 | rank\_test\_accuracy |
| 0.1 | 0.707389 | 0.760575 | 0.60423 | 0.672788 | 1.0 |
| 0.0129155 | 0.681354 | 0.74482 | 0.538207 | 0.616811 | 2.0 |
| 0.0002154435 | 0.675437 | 0.765333 | 0.505266 | 0.578289 | 3.0 |
| 2.782559e-05 | 0.674253 | 0.786487 | 0.498207 | 0.56758 | 4.0 |
| 0.001668101 | 0.67307 | 0.733226 | 0.514678 | 0.589324 | 5.0 |
| 3.593814e-06 | 0.671886 | 0.778153 | 0.493501 | 0.55945 | 6.0 |
| 1e-09 | 0.66952 | 0.761487 | 0.488796 | 0.550955 | 7.0 |
| 7.742637e-09 | 0.66952 | 0.761487 | 0.488796 | 0.550955 | 7.0 |
| 5.994843e-08 | 0.66952 | 0.761487 | 0.488796 | 0.550955 | 7.0 |
| 4.641589e-07 | 0.66952 | 0.761487 | 0.488796 | 0.550955 | 7.0 |