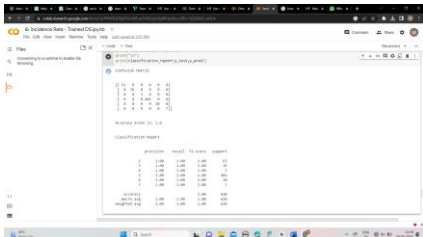
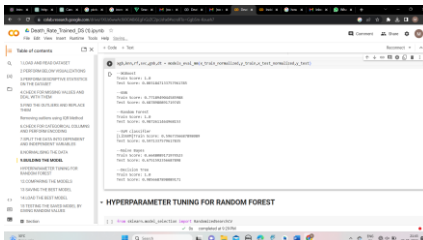
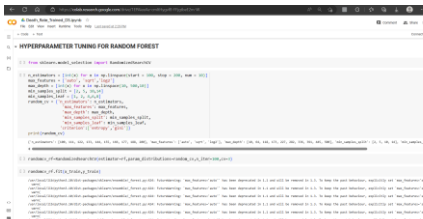


| | | <div>INCIDENCE RATE:</div> <div>Confusion Matrix –</div> <div><pre>[[63 0 0 0 0 0] [0 36 0 0 0 0] [0 0 3 0 0 0] [0 0 0 481 0 0] [0 0 0 0 38 0] [0 0 0 0 0 7]]</pre></div> <div>Accuracy Score – 1.0</div> <div>Classification Report –</div> <table><thead><tr><th></th><th>precision</th><th>recall</th><th>f1-score</th><th>support</th></tr></thead><tbody><tr><td>1</td><td>1.00</td><td>1.00</td><td>1.00</td><td>63</td></tr><tr><td>3</td><td>1.00</td><td>1.00</td><td>1.00</td><td>36</td></tr><tr><td>4</td><td>1.00</td><td>1.00</td><td>1.00</td><td>3</td></tr><tr><td>5</td><td>1.00</td><td>1.00</td><td>1.00</td><td>481</td></tr><tr><td>6</td><td>1.00</td><td>1.00</td><td>1.00</td><td>38</td></tr><tr><td>7</td><td>1.00</td><td>1.00</td><td>1.00</td><td>7</td></tr><tr><td>Acc</td><td></td><td></td><td>1.00</td><td>628</td></tr><tr><td>macroavg:1.00</td><td></td><td>1.00</td><td>1.00</td><td>628</td></tr><tr><td>wtd avg: 1.00</td><td></td><td>1.00</td><td>1.00</td><td>628</td></tr></tbody></table> | | precision | recall | f1-score | support | 1 | 1.00 | 1.00 | 1.00 | 63 | 3 | 1.00 | 1.00 | 1.00 | 36 | 4 | 1.00 | 1.00 | 1.00 | 3 | 5 | 1.00 | 1.00 | 1.00 | 481 | 6 | 1.00 | 1.00 | 1.00 | 38 | 7 | 1.00 | 1.00 | 1.00 | 7 | Acc | | | 1.00 | 628 | macroavg:1.00 | | 1.00 | 1.00 | 628 | wtd avg: 1.00 | | 1.00 | 1.00 | 628 | <div>INCIDENCE RATE:</div>  |
|---------------|----------------|---|--|-----------|--------|----------|---------|---|------|------|------|----|---|------|------|------|----|---|------|------|------|---|---|------|------|------|-----|---|------|------|------|----|---|------|------|------|---|-----|--|--|------|-----|---------------|--|------|------|-----|---------------|--|------|------|-----|--|
| | precision | recall | f1-score | support | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1.00 | 1.00 | 1.00 | 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1.00 | 1.00 | 1.00 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 1.00 | 1.00 | 1.00 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 1.00 | 1.00 | 1.00 | 481 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 1.00 | 1.00 | 1.00 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 1.00 | 1.00 | 1.00 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acc | | | 1.00 | 628 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| macroavg:1.00 | | 1.00 | 1.00 | 628 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| wtd avg: 1.00 | | 1.00 | 1.00 | 628 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Tune the Model | <div>DEATH RATE:</div> <div>Validation Method –</div> <div>--XGBoost</div> <div>Train Score: 1.0</div> <div>Test Score: 0.0031847133757961785</div> <div>--KNN</div> <div>Train Score: 0.7718949044585988</div> <div>Test Score: 0.6878980891719745</div> <div>--Random Forest</div> <div>Train Score: 1.0</div> <div>Test Score: 0.9872611464968153</div> <div>--SVM classifier</div> <div>[LibSVM]Train Score: 0.5967356687898089</div> <div>Test Score: 0.5971337579617835</div> <div>--Naive Bayes</div> <div>Train Score: 0.6648089171974523</div> <div>Test Score: 0.6751592356687898</div> <div>--Decision Tree</div> <div>Train Score: 1.0</div> <div>Test Score: 0.9856687898089171</div> | <div>DEATH RATE:</div>   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INCIDENCE RATE:

Validation Method –

--XGBoost

Train Score: 1.0

Test Score: 0.0

--KNN

Train Score: 0.9243630573248408

Test Score: 0.8996815286624203

--Random Forest

Train Score: 1.0

Test Score: 0.9984076433121019

--SVM classifier

[LibSVM]Train Score: 0.7826433121019108

Test Score: 0.7722929936305732

--Naive Bayes

Train Score: 0.45660828025477707

Test Score: 0.4410828025477707

--Decision Tree

Train Score: 1.0

Test Score: 0.9984076433121019

INCIDENCE RATE:

