REGENTROFEN COLLEGE OF APLLIED SCIENCES, KANSOE.

DEPARTMENT OF COMPUTER SCIENCE

BSC. COMPUTER SCIENCE



End Of Second Semester Examination

Course: Artificial Intelligence Aspect Security

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Table 1 (Algorithm wise best model with the best hyperparameter)

|  |  |  |
| --- | --- | --- |
| Algorithm | Accuracy | Hyperparameters |
| SGD | 0.5304114008395234 | alpha=1e-06 |
| Random forest | 0.8208469055374593 | bootstrap': True, 'max\_depth': 10, 'n\_estimators': 600 |
| SVM | 0.7166123778501629 | 'C': 1, 'gamma': 0.001, 'kernel': 'rbf' |
| Logistic reg | 0.824104234527687 | 'C': 0.615848211066026,  'max\_iter': 100,  'random\_state': 42, |
| KNN | 0.742671009771987 | n\_neighbors': 11, |
| Decision tree | 0.8273615635179153 | max\_depth': 1 |
|  |  |  |

Table 2 (Best overall)\*\*

|  |  |  |
| --- | --- | --- |
| Algorithm | Accuracy | Params |
| Decision | 0.8273615635179153 | max\_depth': 1 |