COS40007 – Artificial Intelligence for Engineering

Portfolio Assessment 2

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Summary table of Studio 3

Summary table of Activity 6

|  |  |  |
| --- | --- | --- |
| SVM model | Train-Test split | 10-fold cross validation |
| Original features | 88.56% | 89.18% |
| With hyper-parameter tuning | 83.63% | 84.26% |
| With feature selection and hypter-parameter tuning | 84.18% | 85.60% |
| With PCA and hyper-parametre tuning | 84.22% | 84.35% |

Summary table of Activity 7

|  |  |  |
| --- | --- | --- |
| Model | Train-Test split | 10-fold cross validation |
| SVM | 88.56% | 89.18% |
| SGD | 88.05% | 87.56% |
| RandomForest | 91.80% | 92.51% |
| MLP | 85.04% | 86.92% |

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