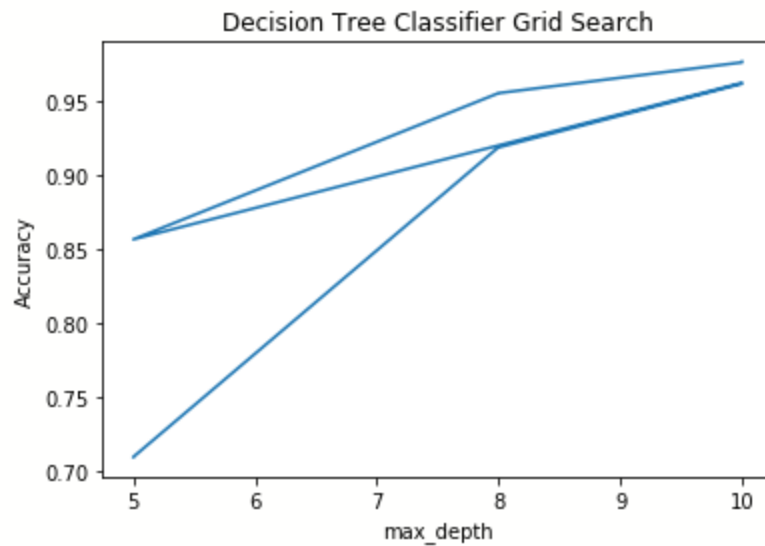


GRID SEARCH GRAPHS

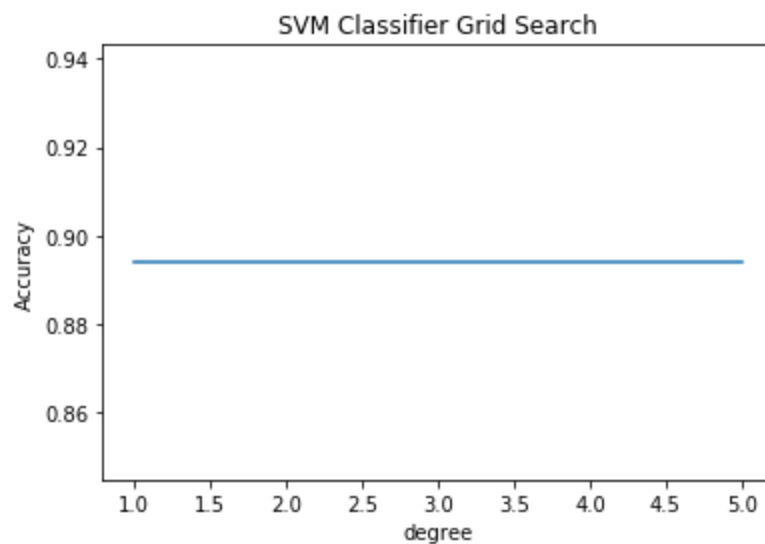
1. Decision Tree Classifier Grid Search

Hyperparameters taken: `{ 'max_depth': [5,8,10],`
`'criterion': ['gini','entropy'],`
`'Min_samples_split': [2,4]}`



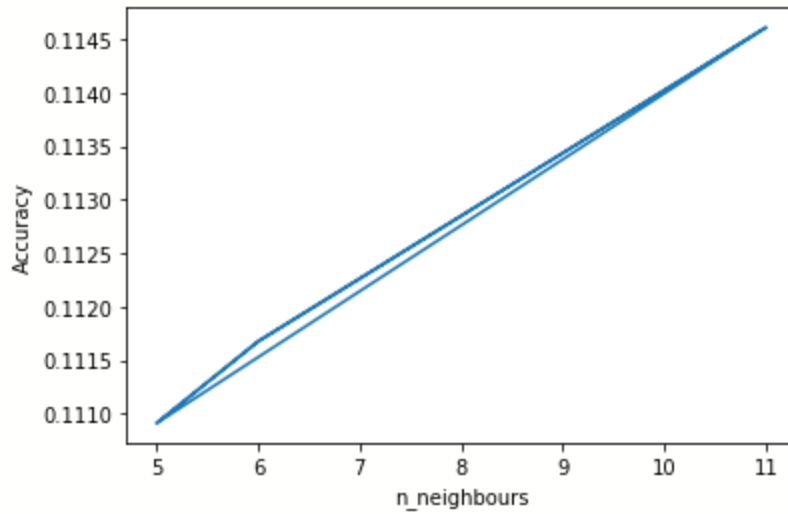
2. SVM Classifier Grid Search

Hyperparameters taken: `{ 'gamma': ['scale','auto'],`
`'degree': [1,4,5],`
`'kernel': ['linear']}`



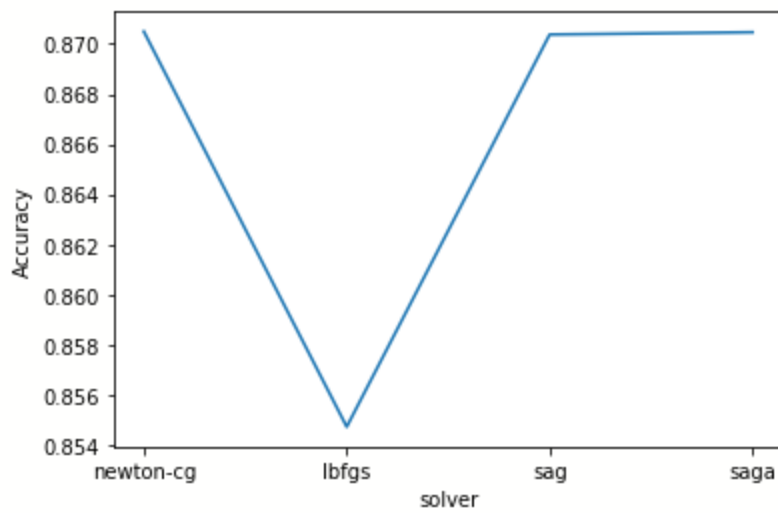
3. K-Neighbours Classifier Grid Search

Hyperparameters taken: {'n_neighbors': [5, 6, 11],
'Algorithm': ['auto', 'ball_tree']}



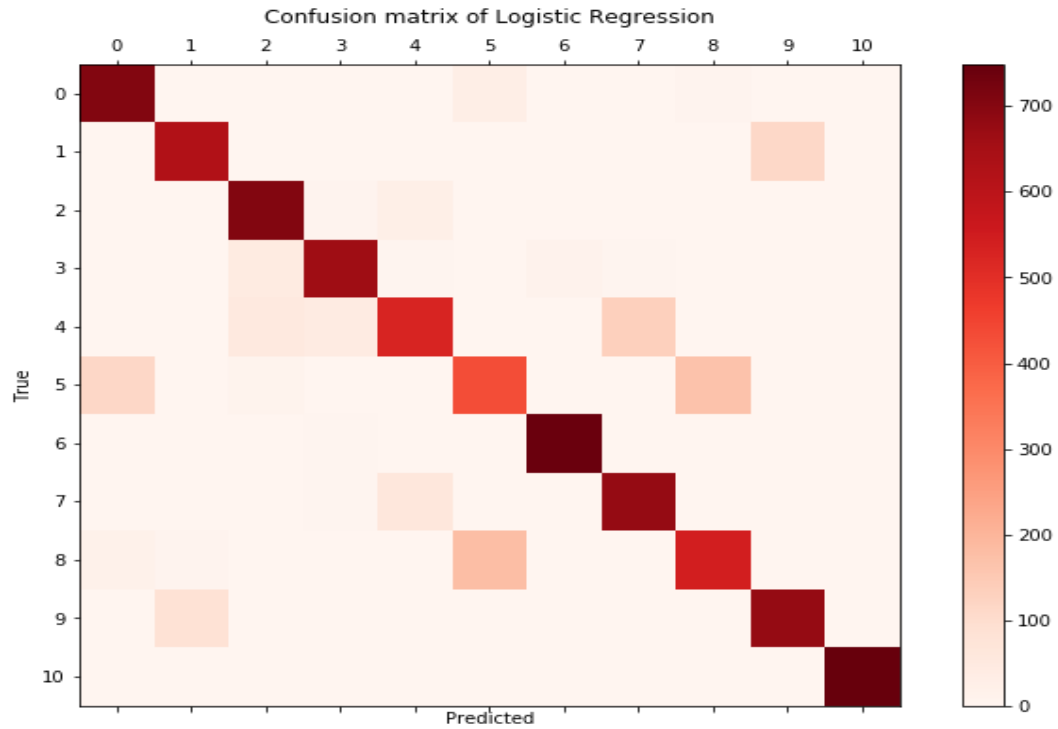
4. Logistic Regression Frid Search

Hyperparameters taken: {'solver': ['newton-cg', 'lbfgs', 'sag', 'saga'],
'multi_class': ['multinomial']}

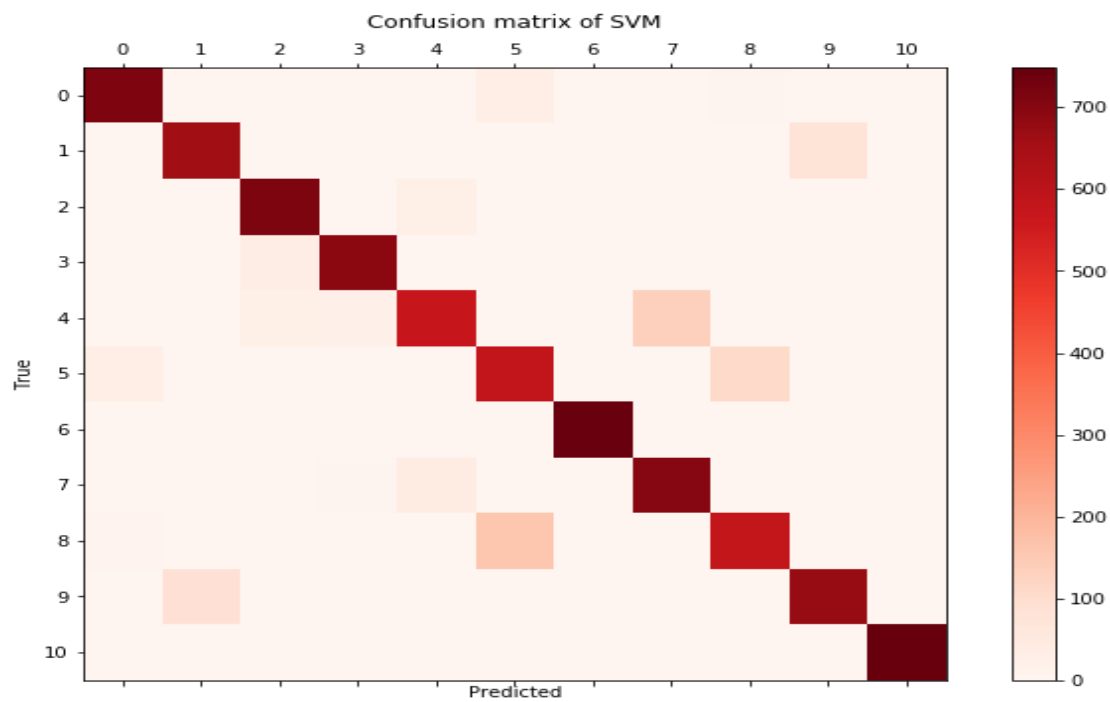


Visualizations using Matplotlib library for the confusion matrix

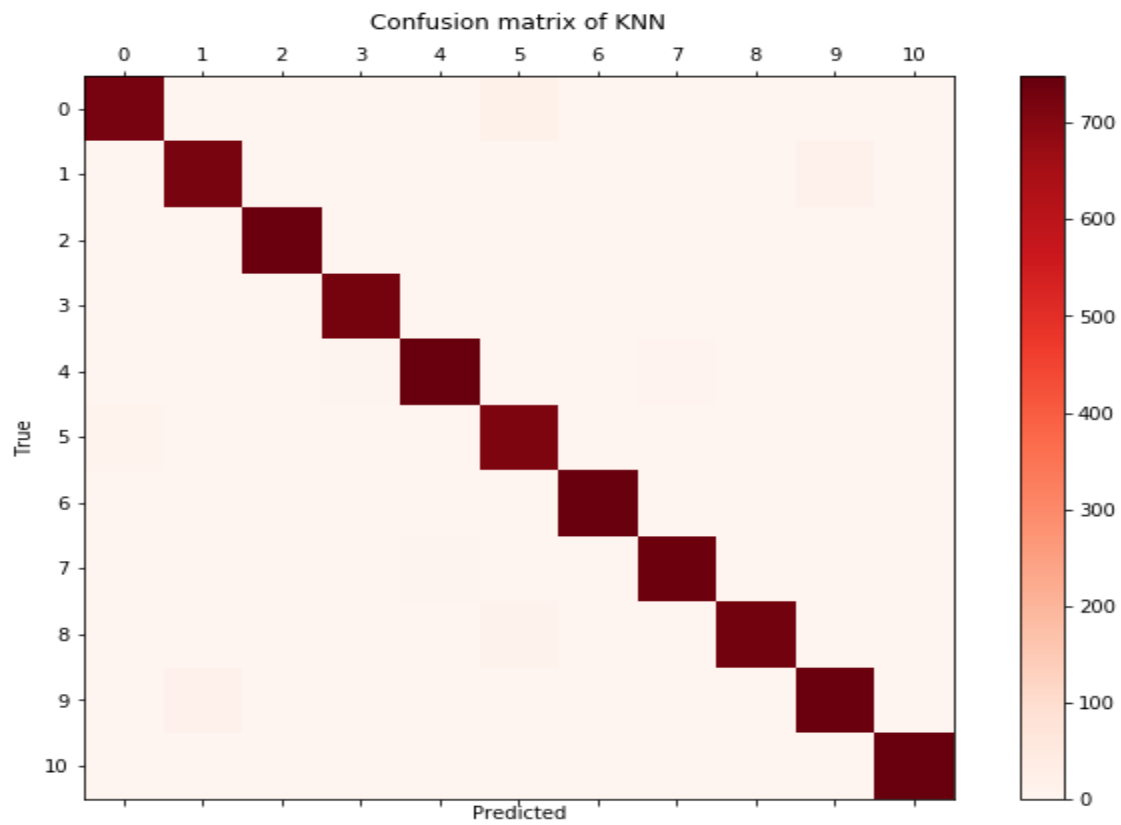
1. Logistic Regression



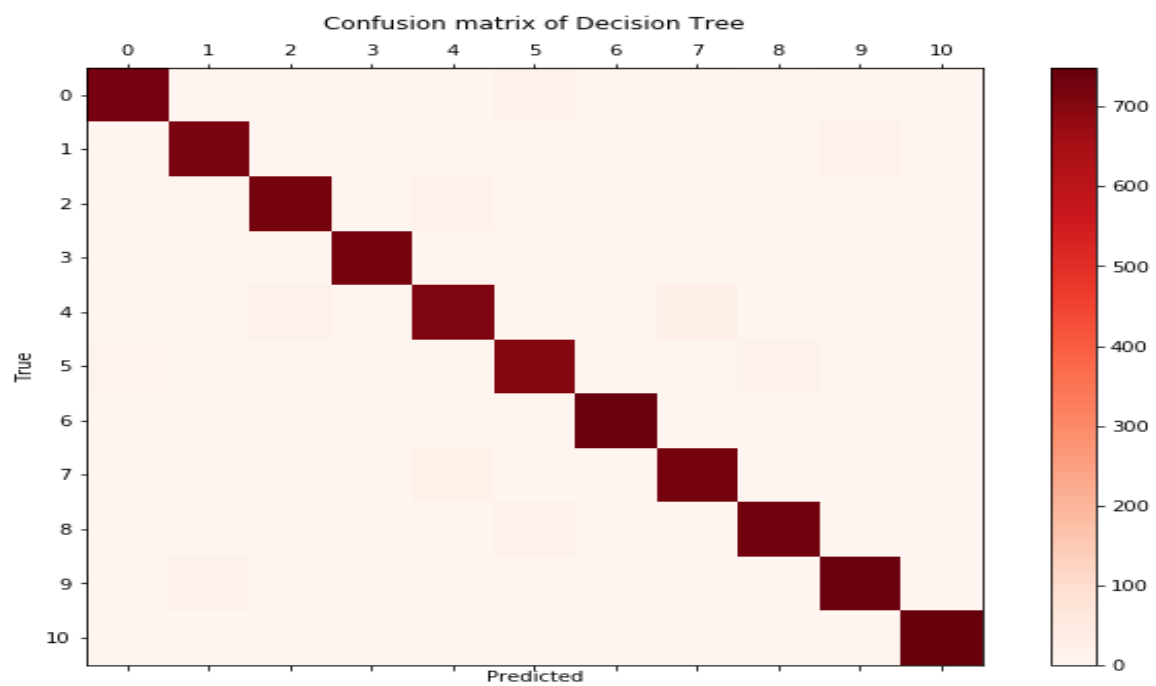
2. Support Vector Machine



3. KNN



4. Decision Tree



5. Voting Classifier

