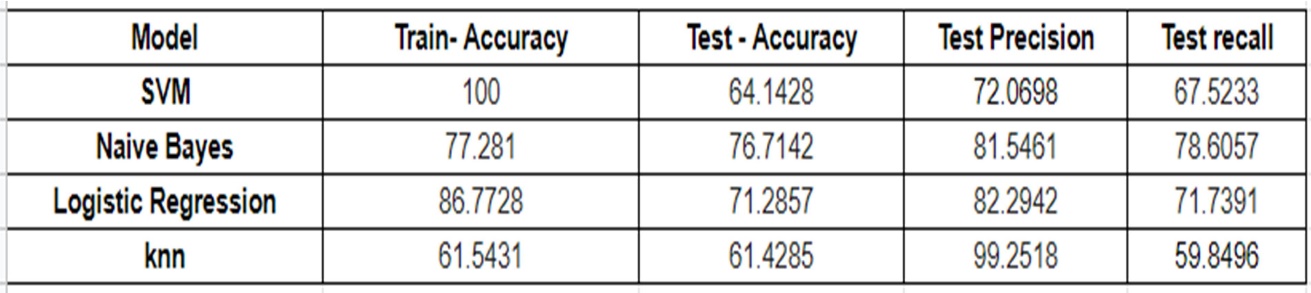
RESULTS

The following represents the performance metrics of the system.

Performance of ML classifiers:



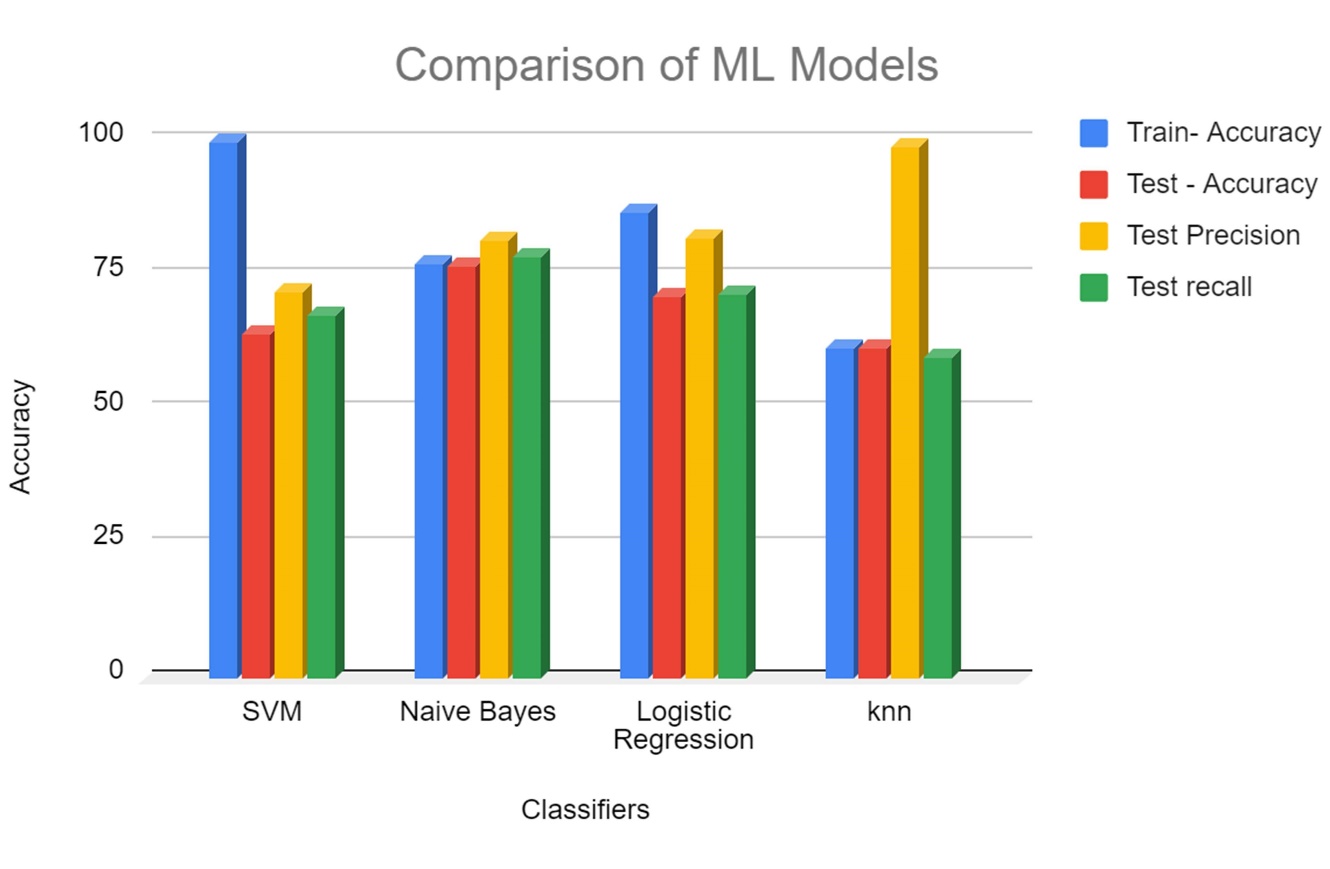
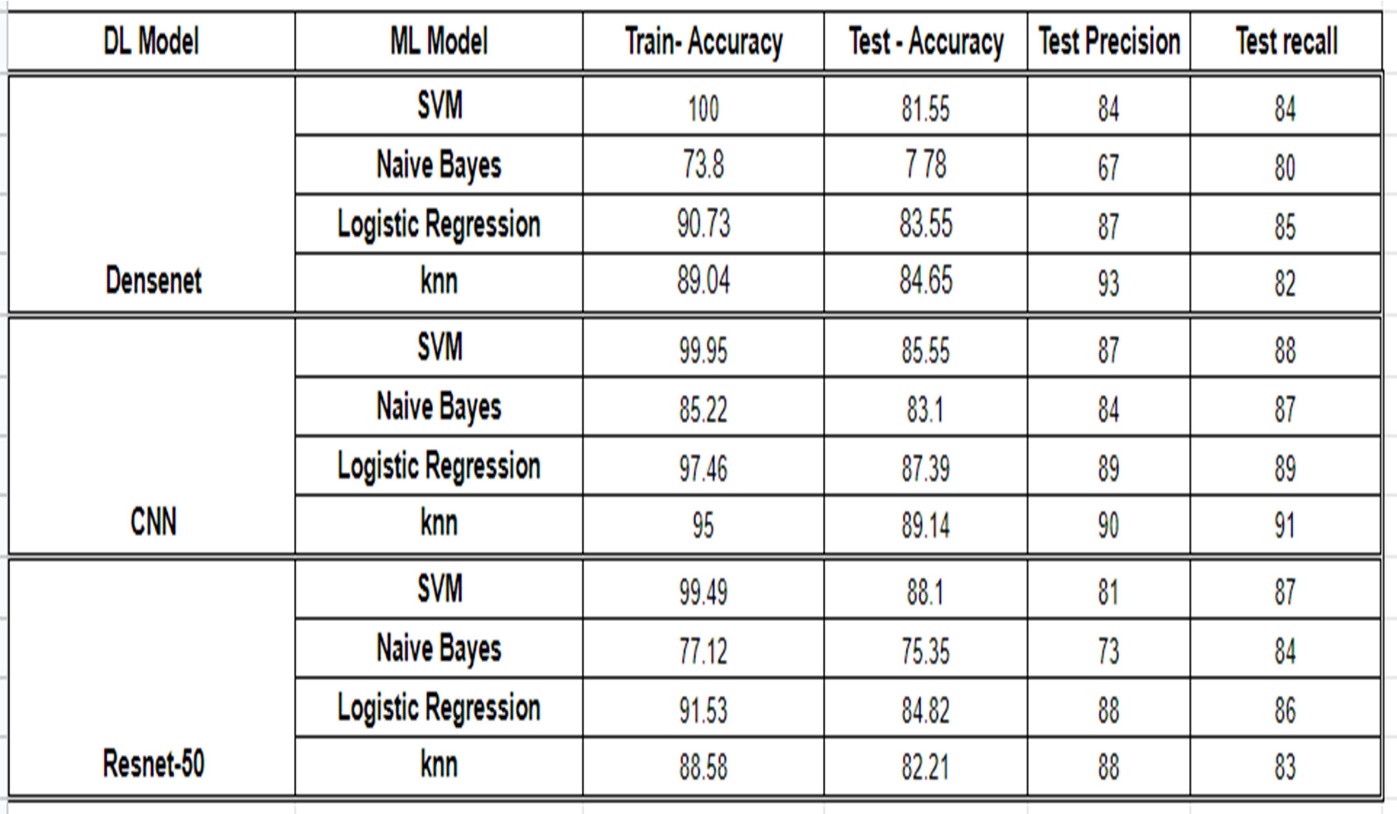
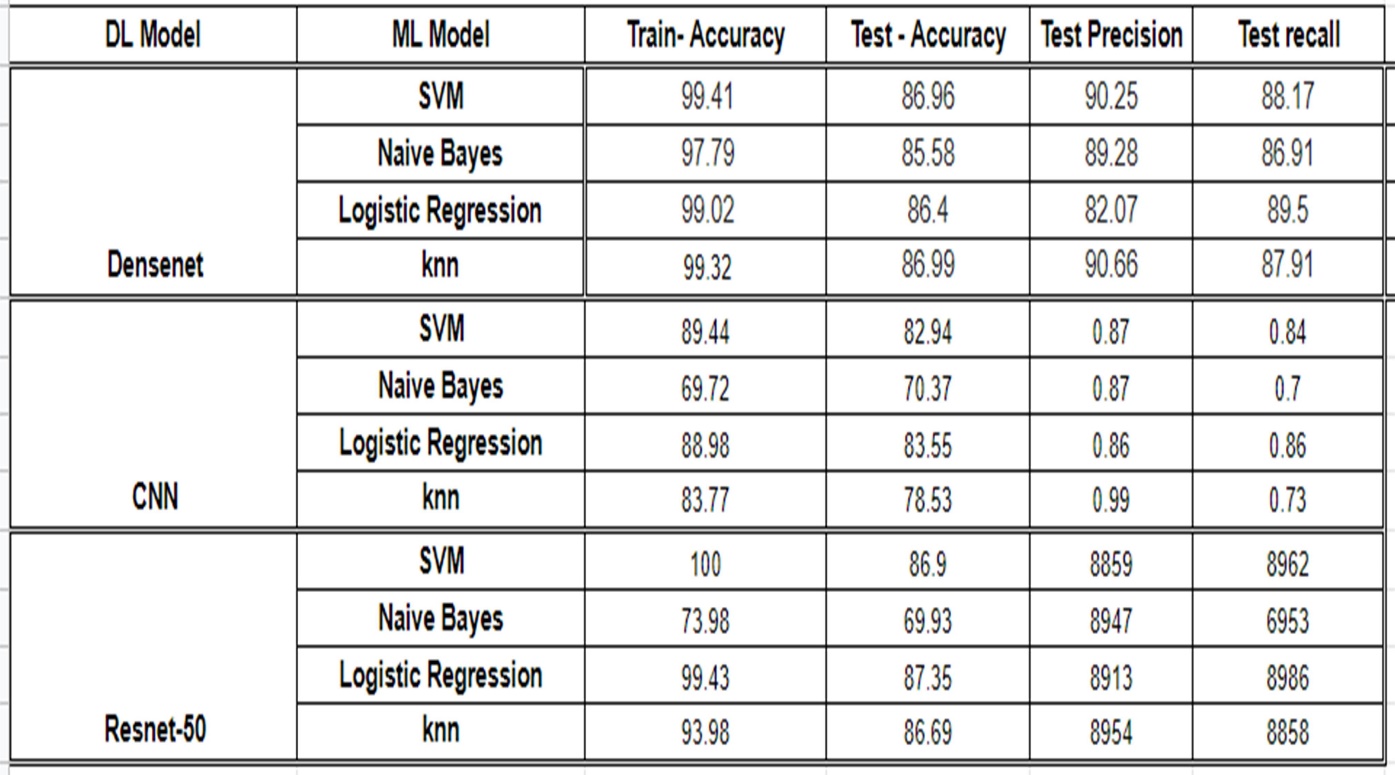


Fig 1.1: Comparison of ML Classifiers

Performance of Hybrid Models (DL+ML):



Performance of Hybrid Models with PCA:



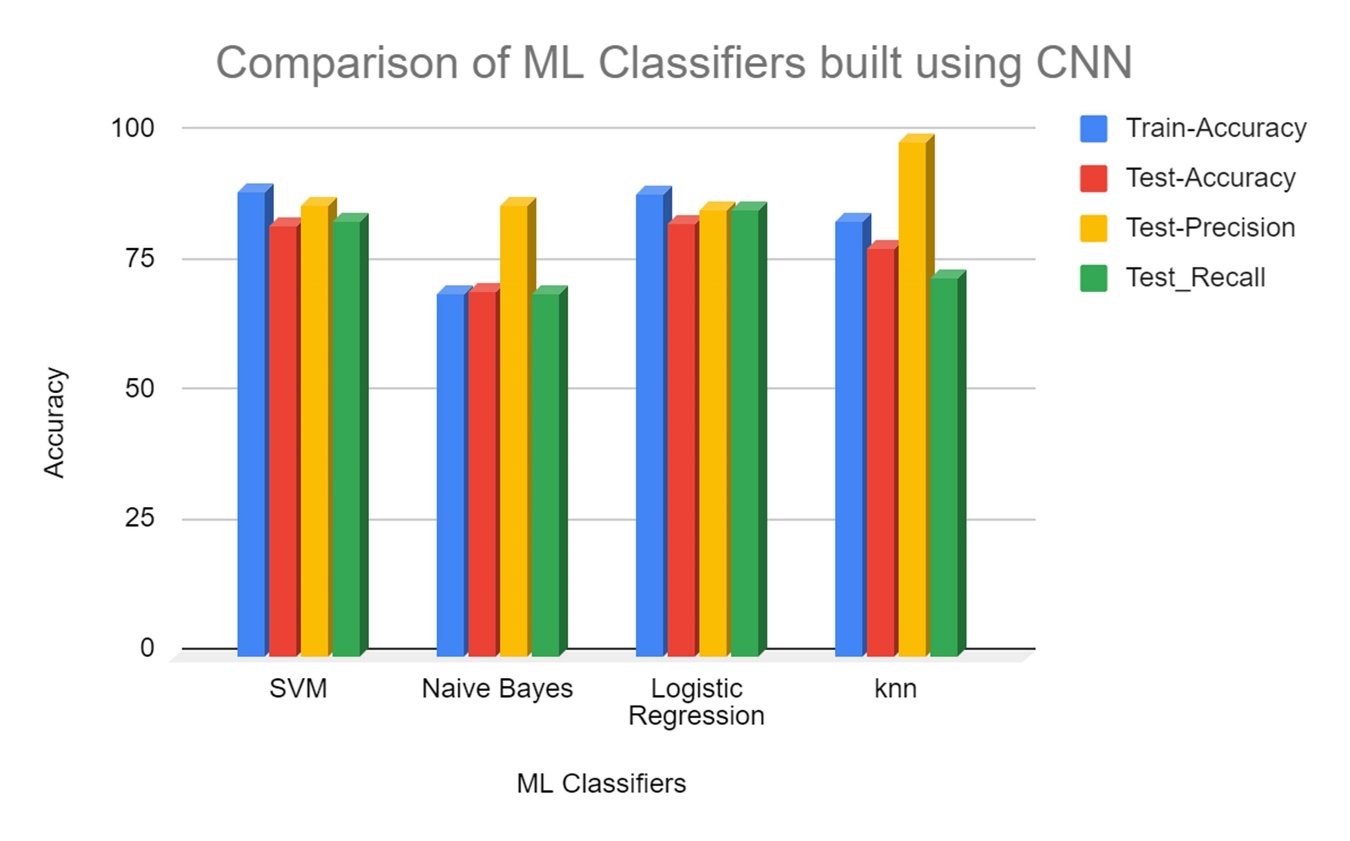


Fig 1.2: ML classifiers with CNN

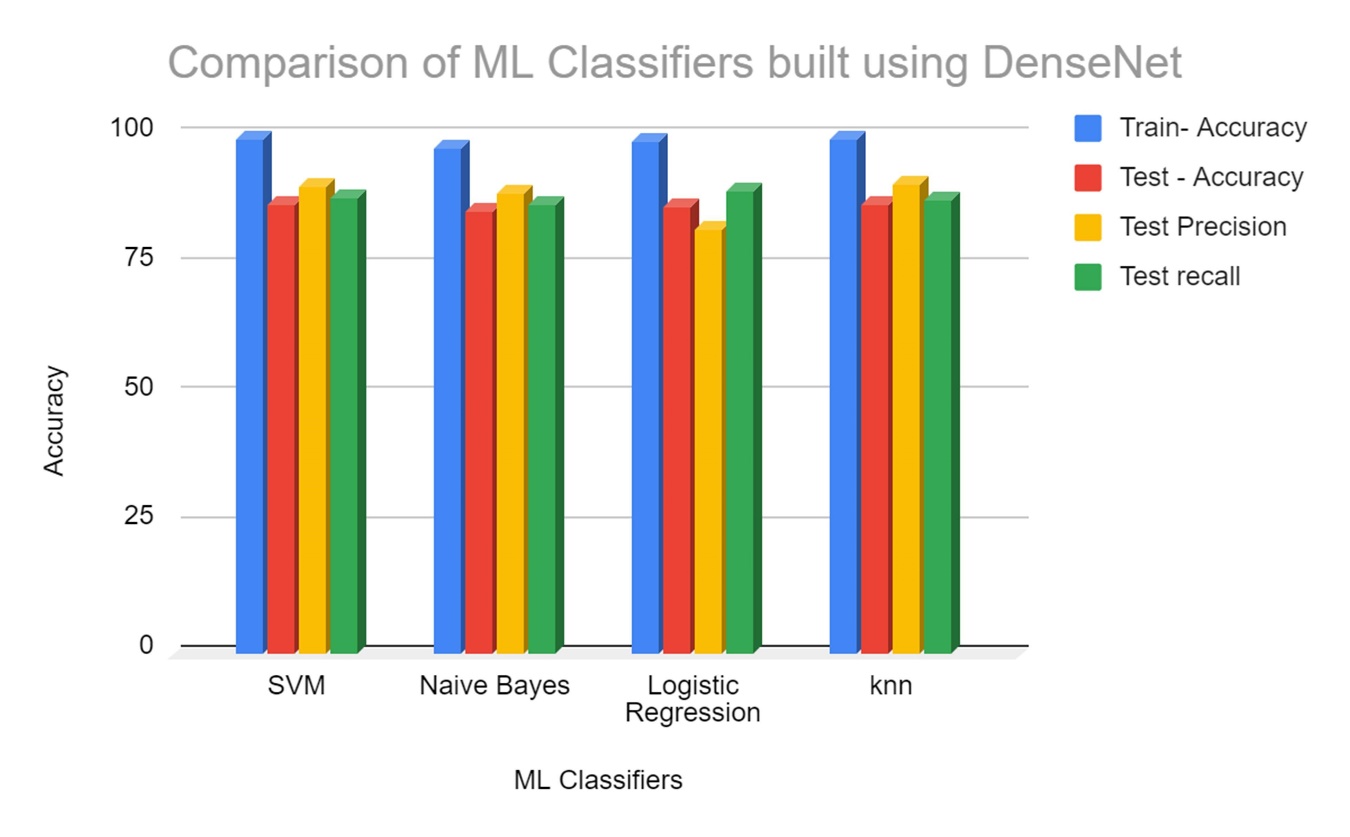


Fig 1.3: ML classifiers with DenseNet

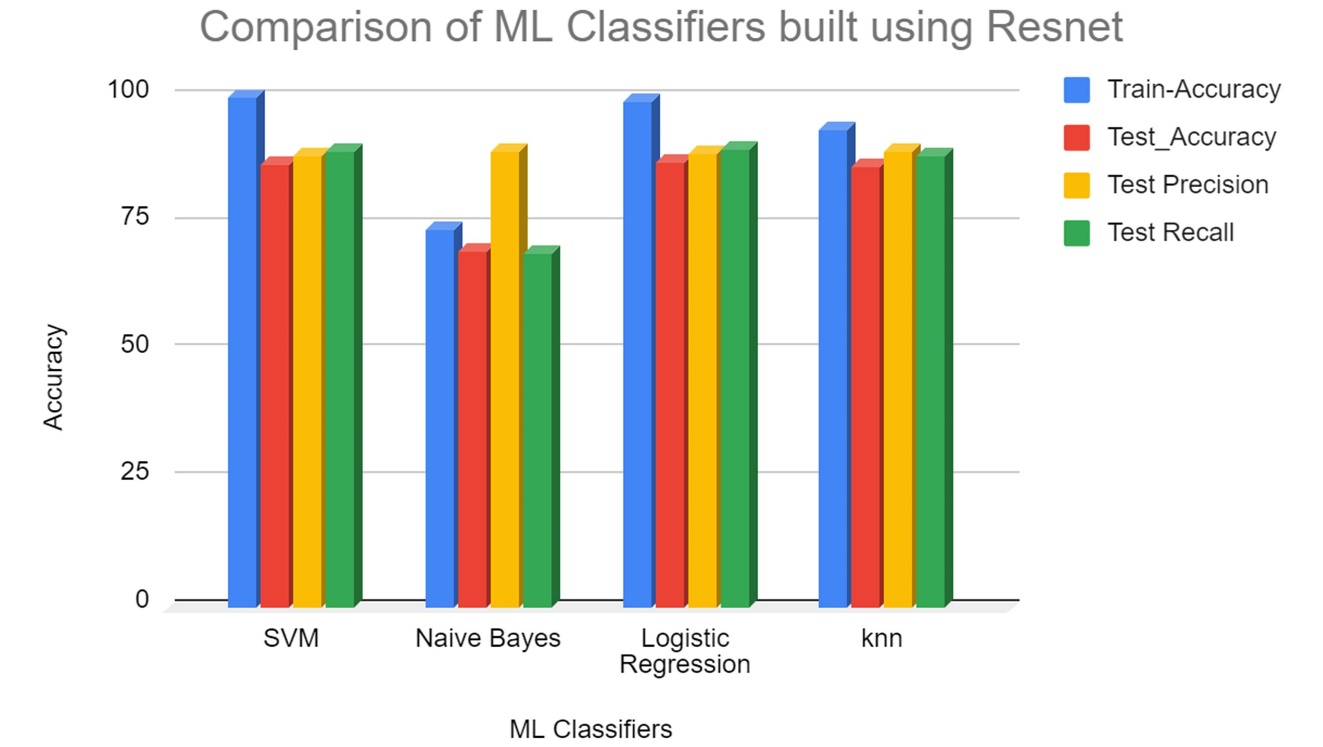
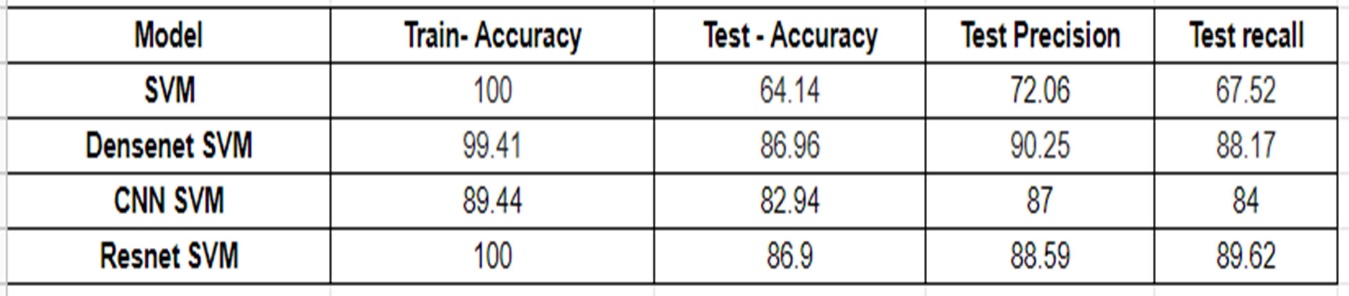


Fig 1.4: ML classifiers with ResNet

Comparison of SVM classifiers under different feature extractors:



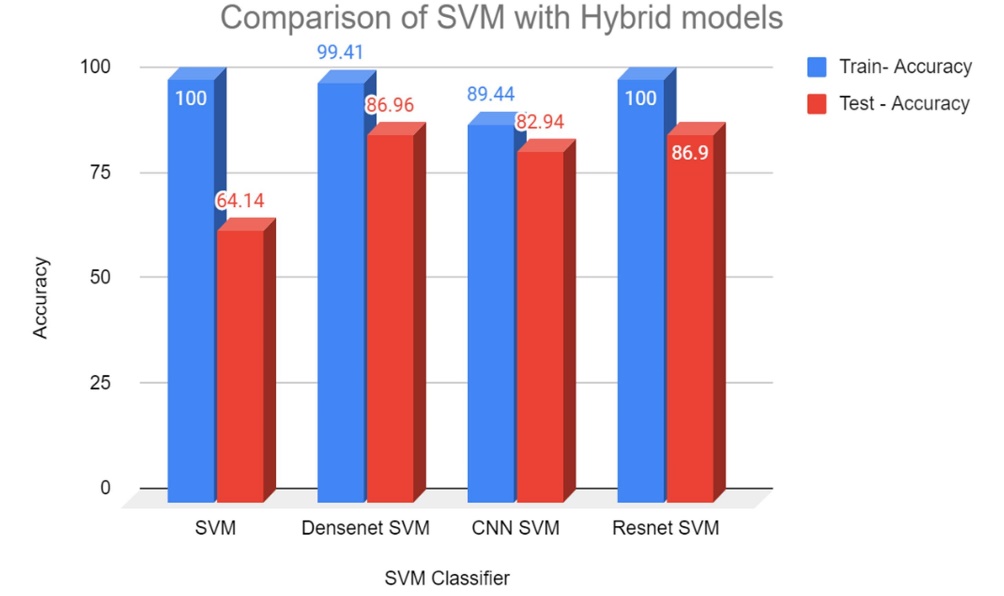


Fig 1.5: Comparison of SVM with hybrid models-1

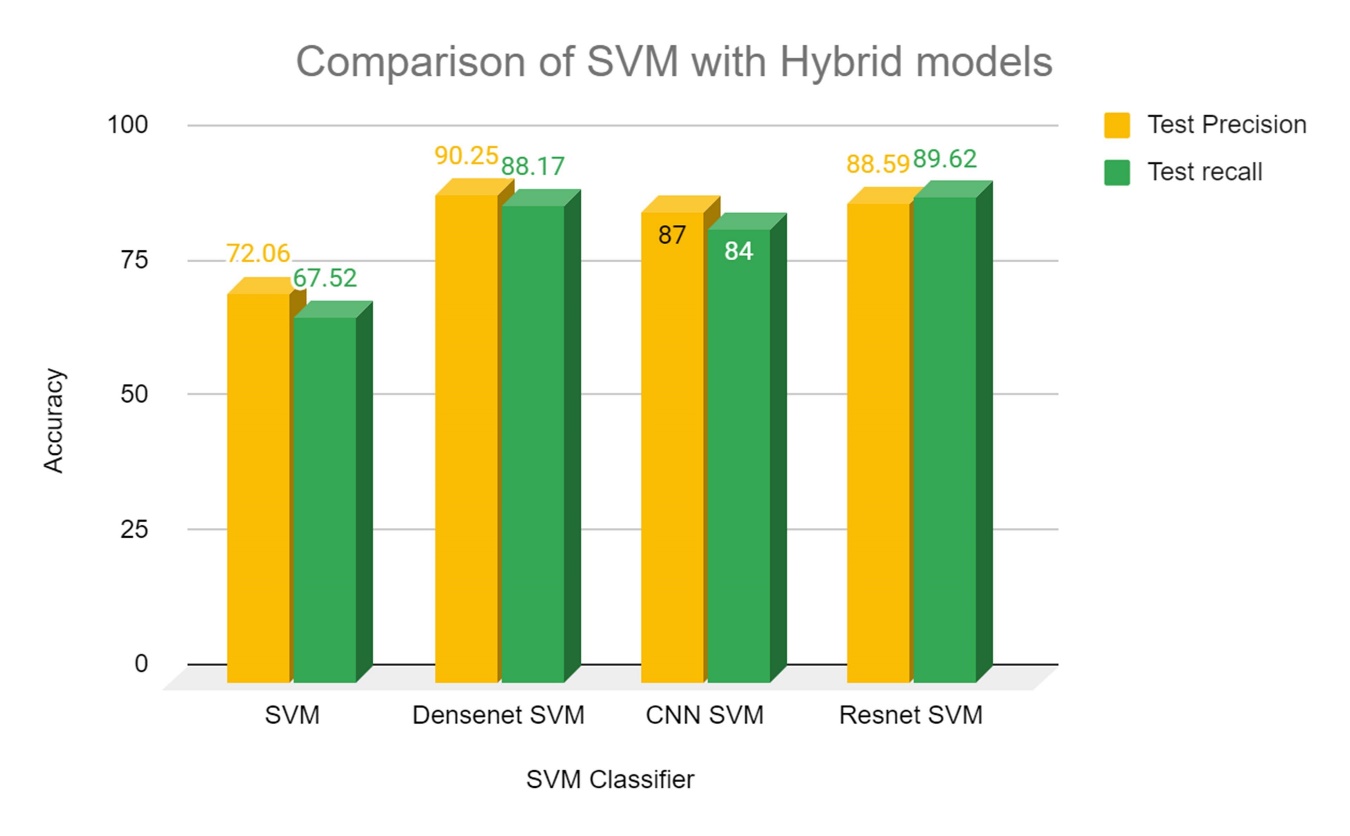


Fig 1.6.: Comparison of SVM with hybrid models-2

The test accuracy of the SVM classifier is improved from 64.14% to 86.96% with the DenseNet based hybrid model.

The following images represent the GUI of the system:

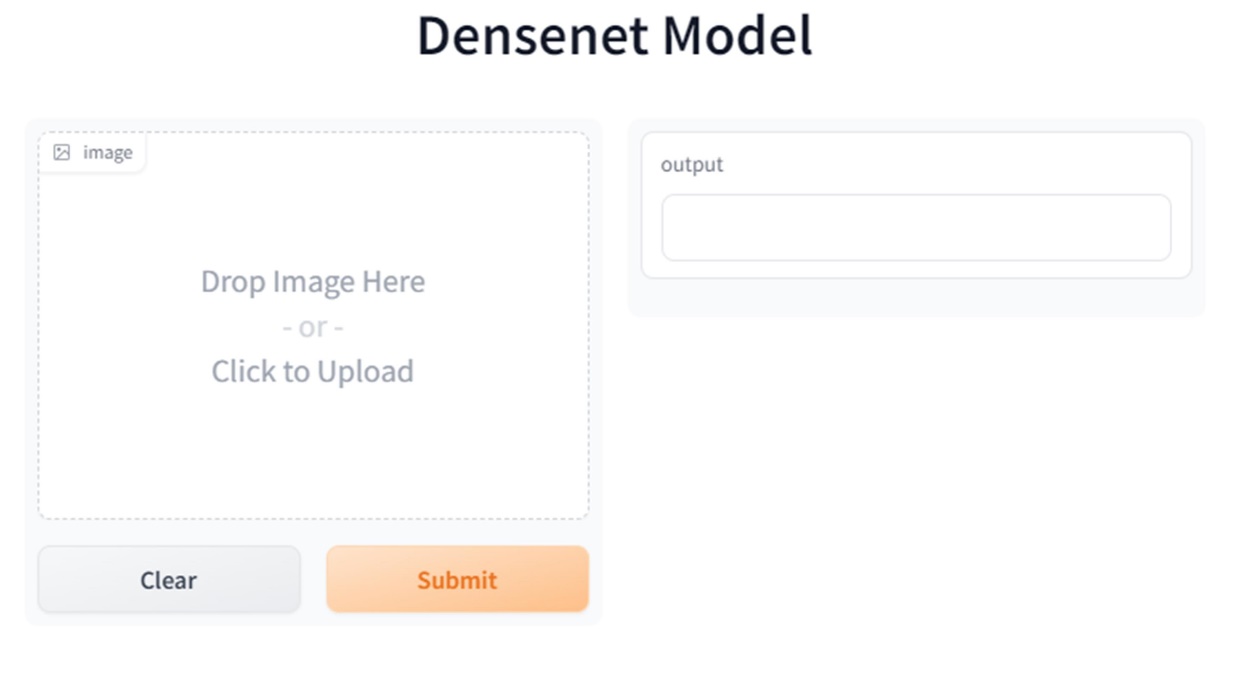


Fig 1.7: User Interface

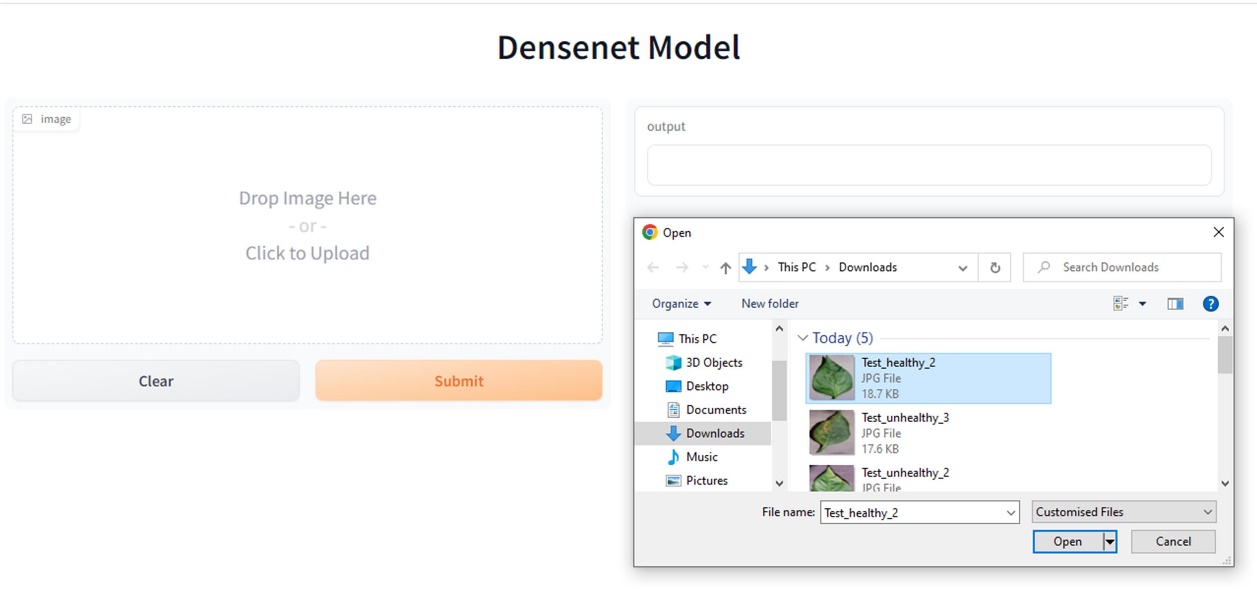


Fig 1.8: Input

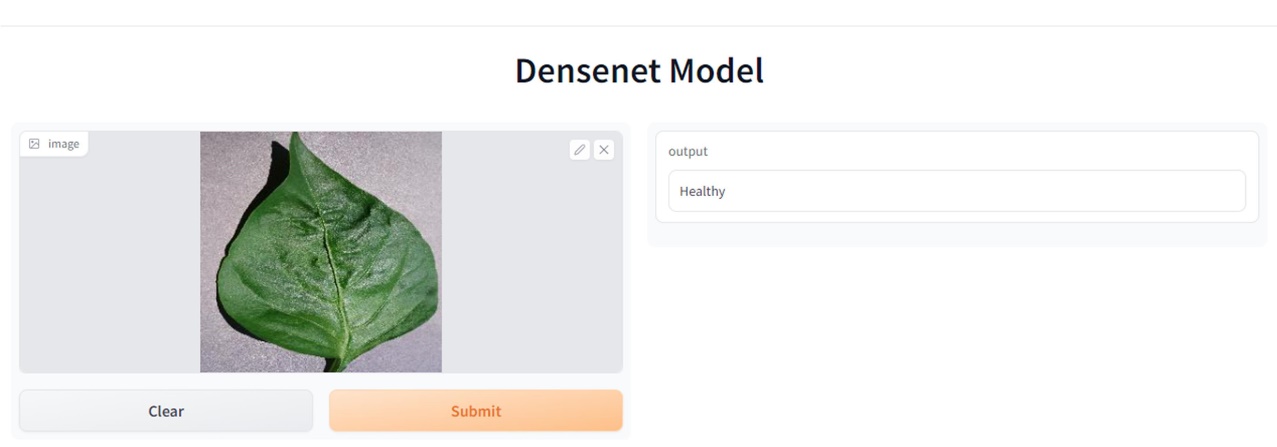


Fig 1.9: Output-1

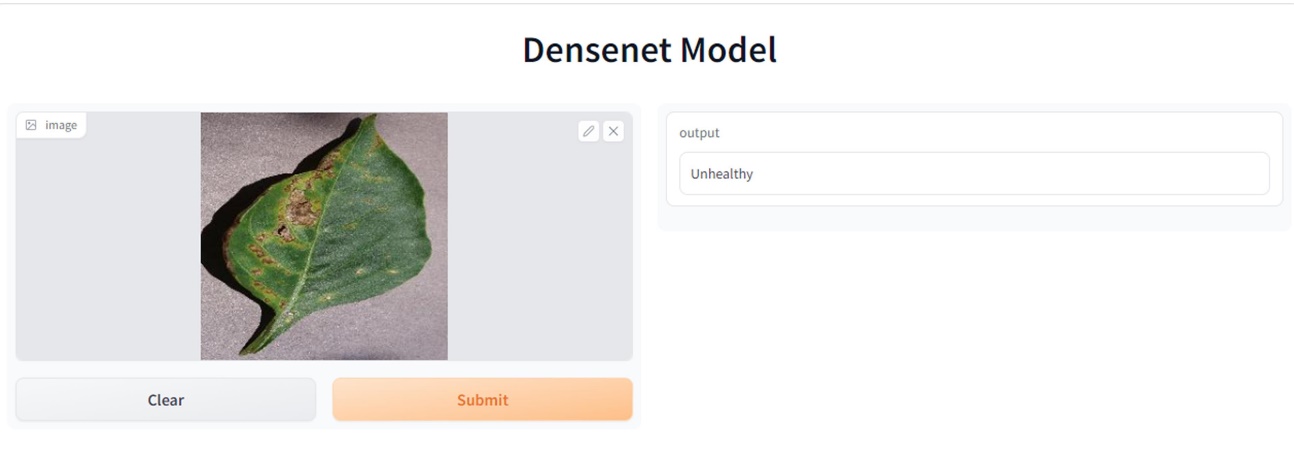


Fig 1.10: Output-2