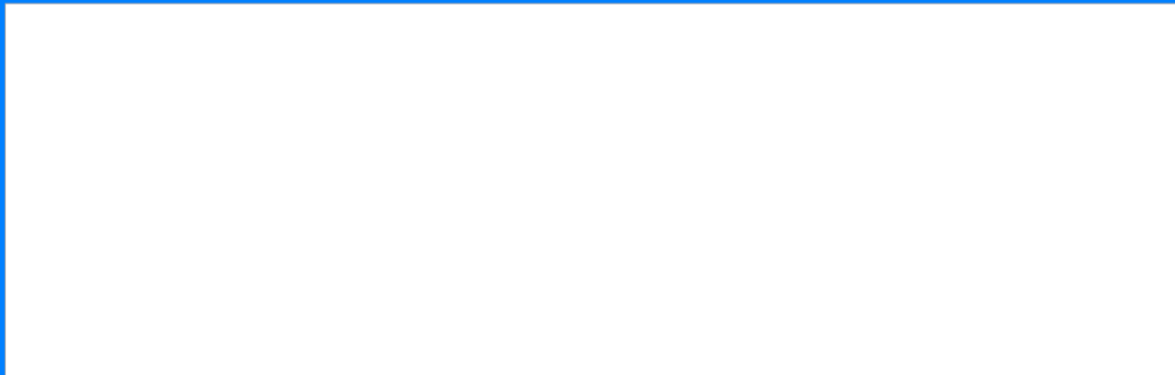


## Monkeypox Detection using Modified VGG16 &amp; Custom CNN Model



Upload Monkeypox Dataset

Preprocess Dataset

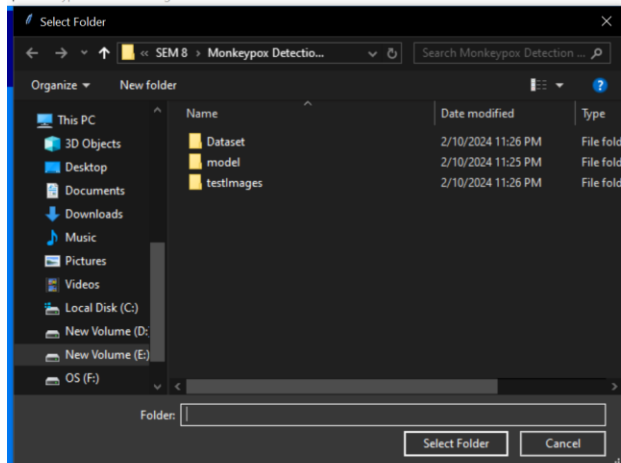
Run VGG16 Algorithm

Run Custom CNN Algorithm

Comparison Graph

Predict Disease from Test Image

## Monkeypox Detection using Modified VGG16 &amp; Custom CNN Model



Upload Monkeypox Dataset

Preprocess Dataset

Run VGG16 Algorithm

Run Custom CNN Algorithm

Comparison Graph

Predict Disease from Test Image

## Monkeypox Detection using Modified VGG16 & Custom CNN Model

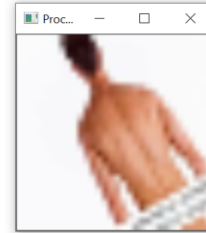
Dataset Preprocessing & Image Normalization Process Completed

Total images found in dataset : 1139

Dataset Train and Test Split

80% images used to train VGG & CNN algorithms : 911

20% images used to test VGG & CNN algorithms : 228



Upload Monkeypox Dataset

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## Monkeypox Detection

Modified VGG16 AUC : 97.7939477939478  
Modified VGG16 Accuracy : 97.80701754385966  
Modified VGG16 Precision : 97.81972265023113  
Modified VGG16 Recall : 97.7939477939478  
Modified VGG16 FScore : 97.80494849330894

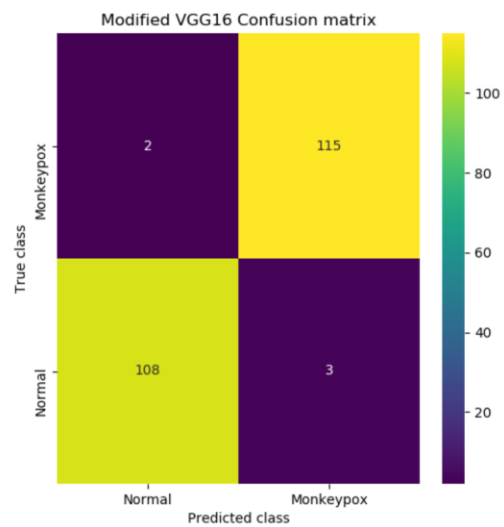
Upload Monkeypox Dataset

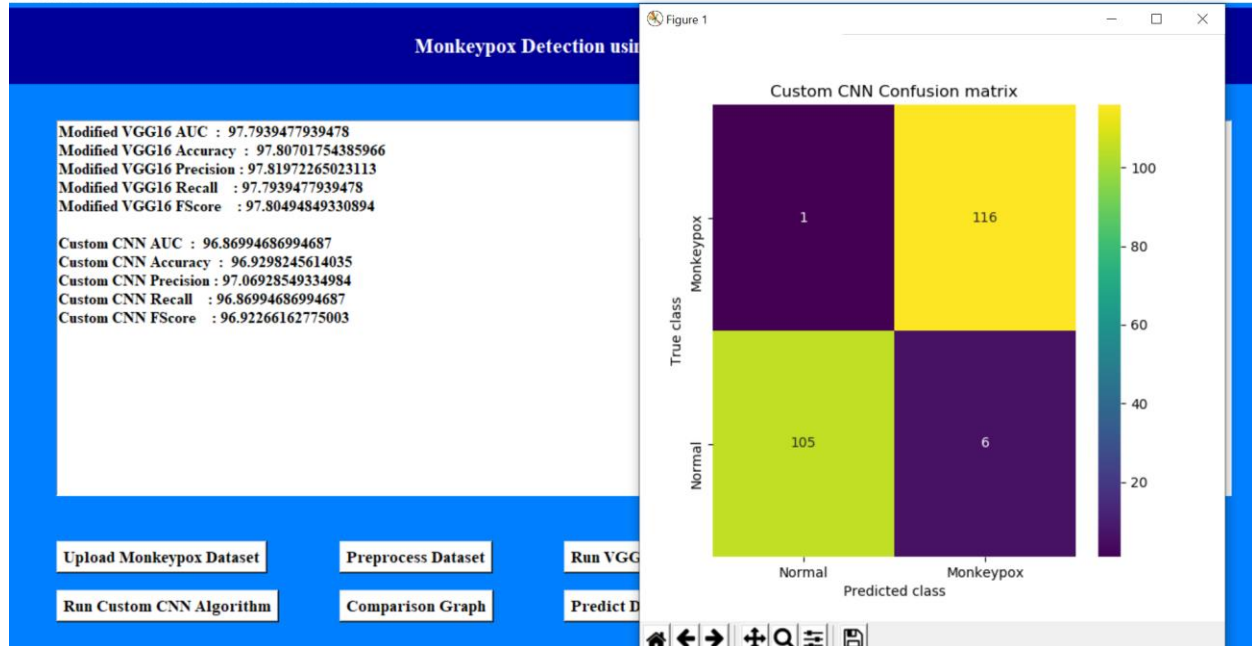
Preprocess Dataset

Run Custom CNN Algorithm

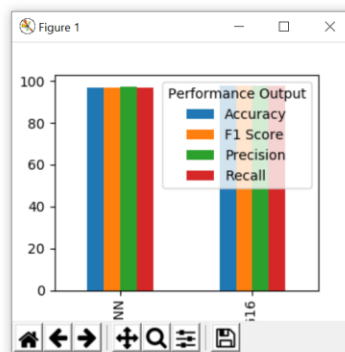
Comparison Graph

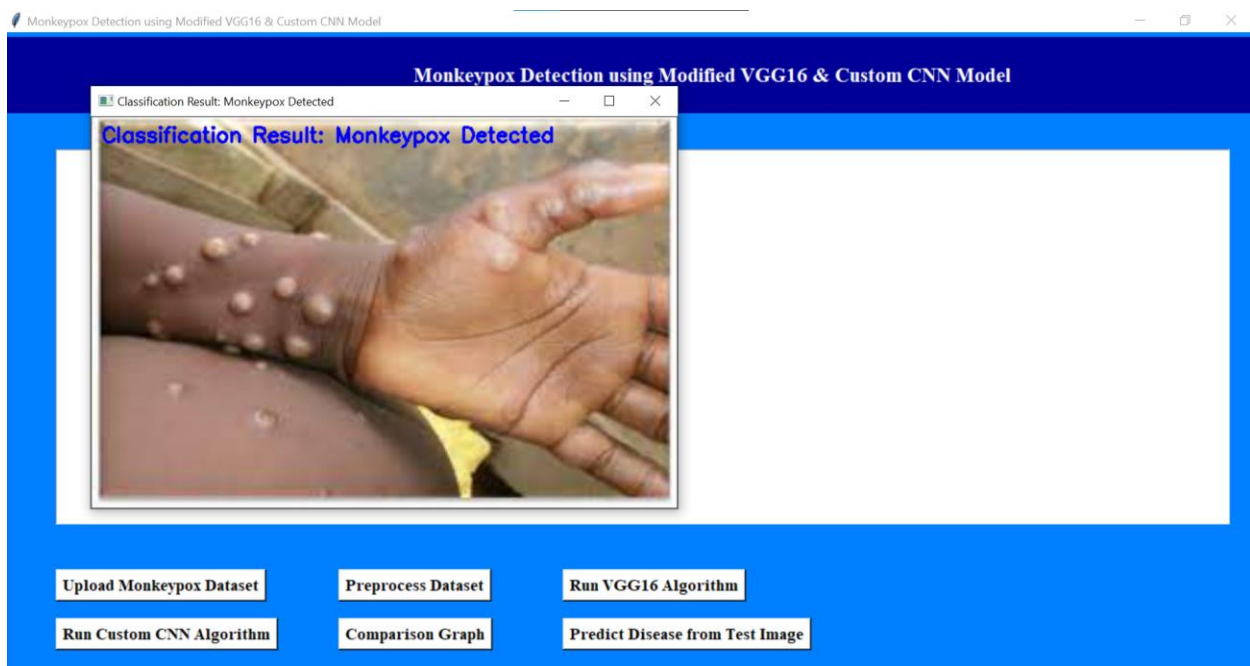
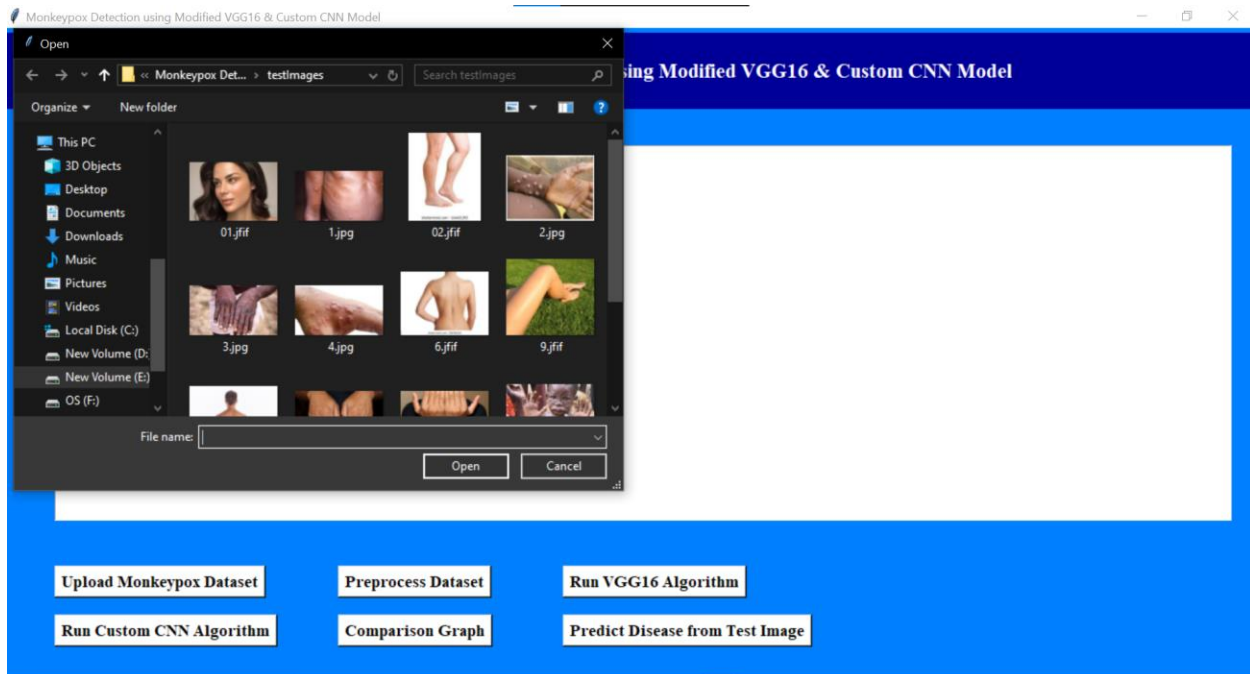
Figure 1






Algorithm Name	Accuracy	Precision	Recall	FSCORE
Modified VGG16	97.80701754385966	97.81972265023113	97.7939477939478	97.80494849330894
Custom CNN	96.9298245614035	97.06928549334984	96.86994686994687	96.92266162775003





Classification Result: Normal Detected

Classification Result: Normal Detected



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using Modified VGG16 & Custom CNN Model

Upload Monkeypox Dataset

Preprocess Dataset

Run VGG16 Algorithm

Run Custom CNN Algorithm

Comparison Graph

Predict Disease from Test Image