| **Architecture** | **Accuracy** |
| --- | --- |
| No feature Extraction | ~62% |
| Face Pose Estimator | ~71% |
| SIFT | ~73% |
| Local Binary Patterns | ~75% |
| HOG | ~76% |
| Preprocessed images directly on Deep VGG like CNN architecture | ~85% |
| Transformer | Did not work since the data is linear |
| Data directly on Resnet | Did not work since the data is linear |
| Data directly on other CNN architecture | Did not work since the data is linear |
| Preprocessed images directly on Resnet | ~82% |
| Combined architecture of images on Resnet and LBP data on NN | ~84% |

**Next steps:**

* Training Linear Data on Siamese network and Capsule Network by adding few extra layers
* Trying out the Mesonet in combined architecture since it has the best accuracy for deepfake classification
* Trying out other CNN networks(Efficient Net,Xception net,Visual Transformer) with the combination of feature extractors
* To test the model on different datasets like DFDC,FaceForensics++.

**Classifier without feature extraction**