FACE EXPRESSION RECOGNITION
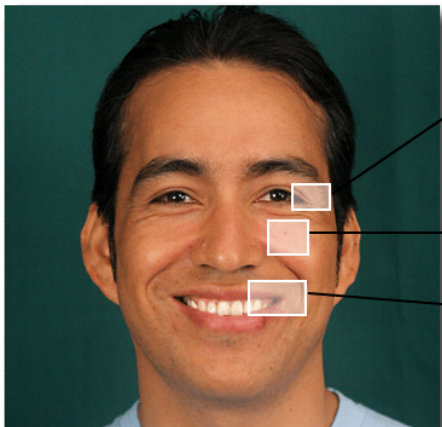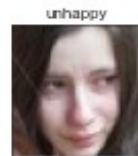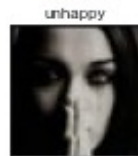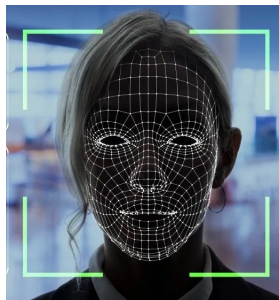
Cindy
Deep Learning Project

MOTIVATION

MOTIVATION

1. Eyes are narrowed and there is some wrinkling around the eyes

2. Cheeks are raised

3. Lips are pulled back and teeth are exposed in a smile
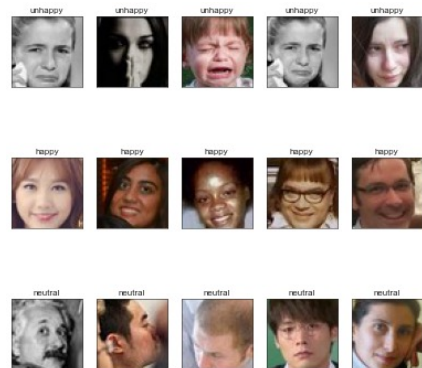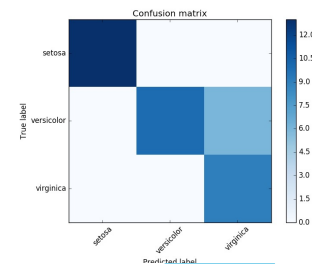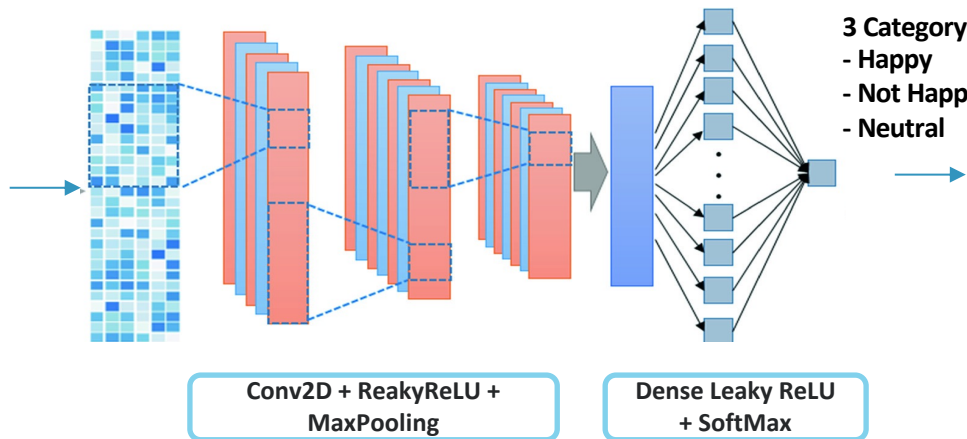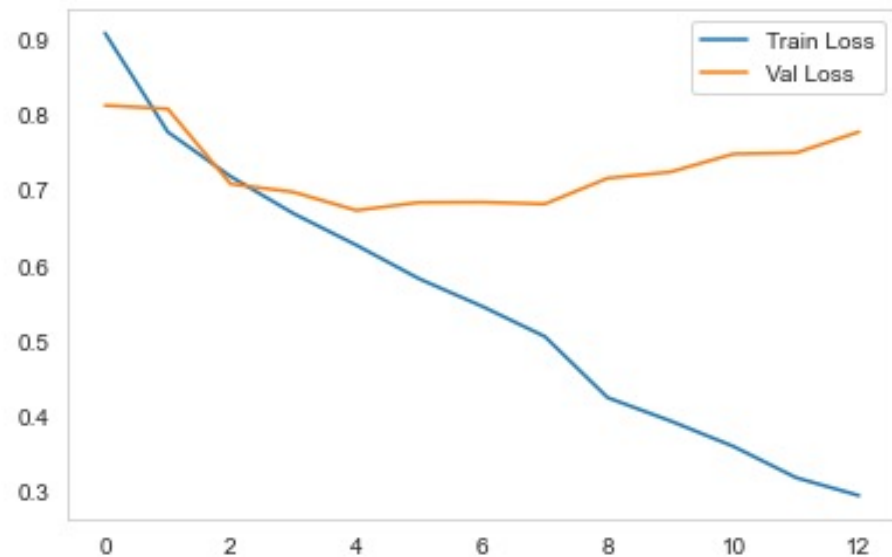
Workflow

Image Dataset (Kaggle)

35886 images

Conv2D + ReakyReLU + MaxPooling

Dense Leaky ReLU + SoftMax

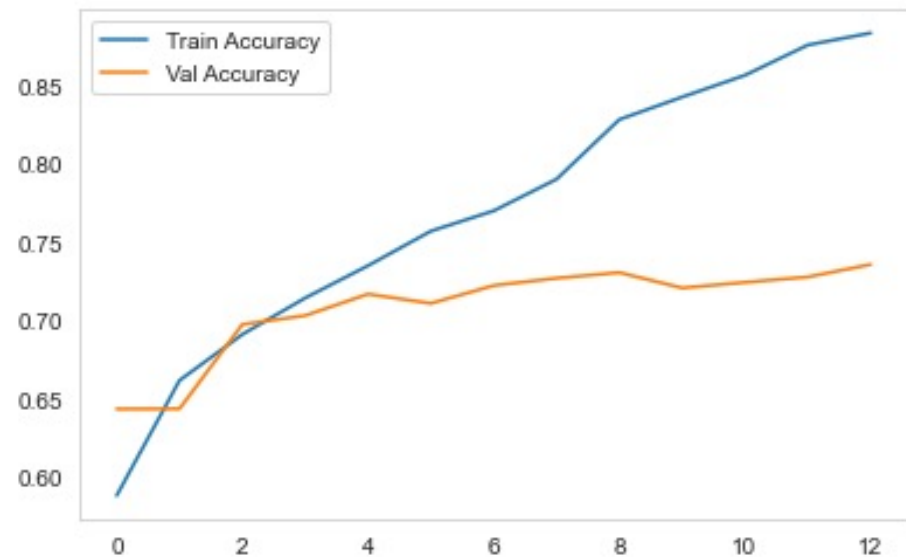**3 Category Prediction**
- Happy
- Not Happy
- Neutral
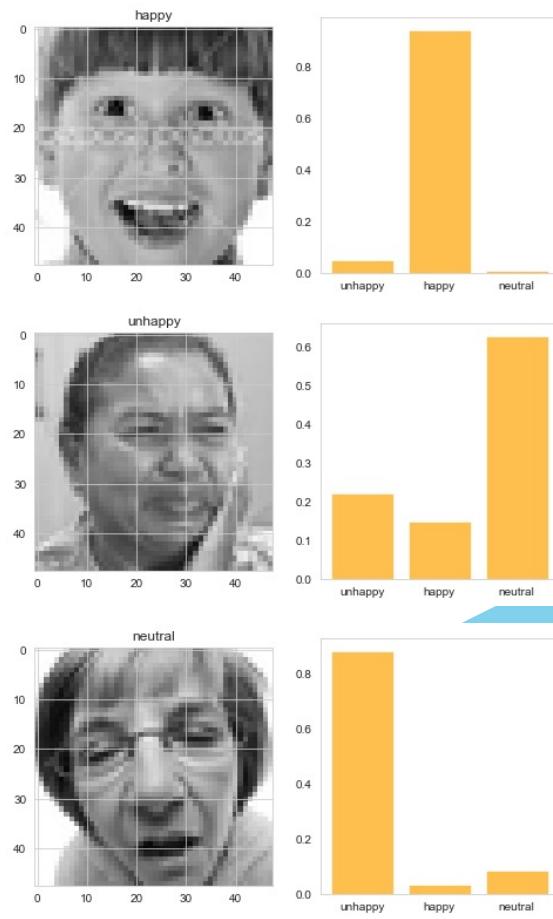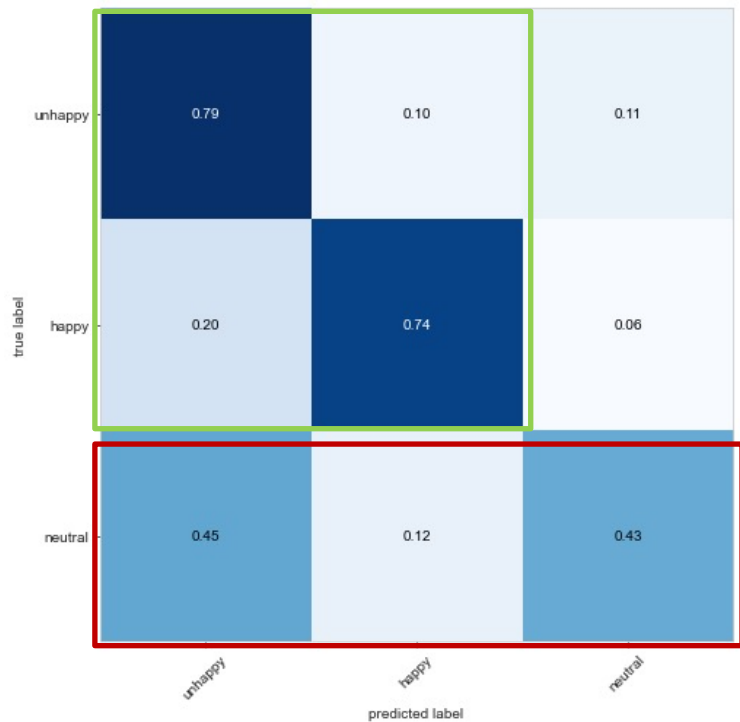
Confusion Matrix/ Prediction Result
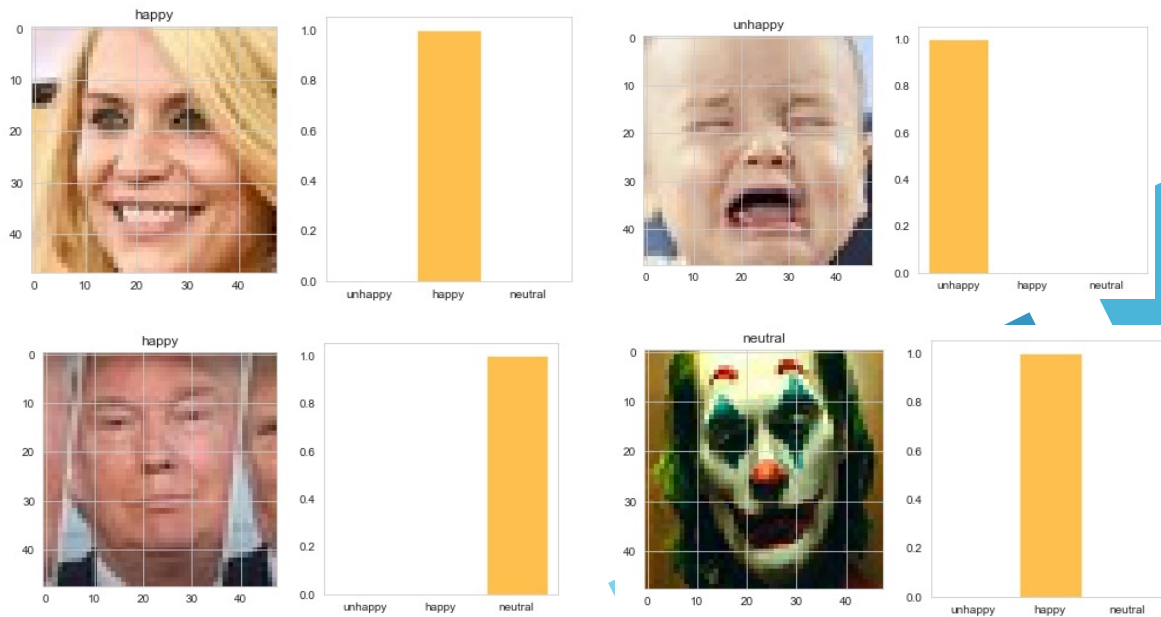
Result

Accuracy: 0.71

Result

Weak in identifying fake expression

Future work

- **Build a more robust model to solve overfitting**
- **Identify more expressions – Angry, Sad, Disgust, Fear**
- **Build Face detection model to work with more face images data**
- **Data Augmentation**

Thank you