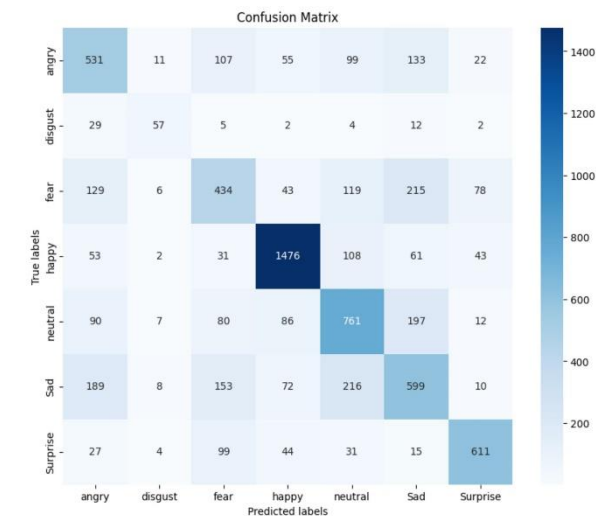**Experiment and Results**

During our assessment of the facial emotion detection model using the FER-2013 dataset, the confusion matrix provides detailed insights into its performance. The model exhibits high accuracy in identifying 'happy' emotions, with 1476 correct predictions, indicating its strong detection capabilities in this category. However, it struggles with accurately classifying 'fear' and 'sad', often misidentifying them as 'angry' and 'neutral', respectively. Although 'surprise' is well-detected with 611 correct predictions, it, too, occasionally gets confused with 'angry'. Overall, while the model excels in certain aspects, it highlights the need for further refinement in distinguishing between emotions with similar facial expressions.

Below is the output we got when we integrated our model with the real time web cam detecting Happy Surprise Neutral and Sad