**Human Facial Expression Recognition**

I want to build a model for Facial expression recognition. Many established facial expression recognition systems apply standard machine learning to extracted image features, and these methods generalize poorly to previously unseen data. Artificial intelligence systems to recognize human emotion have attracted much research interest, and potential applications of such systems abound, spanning domains such as customer-attentive marketing, health monitoring, and emotionally intelligent robotic interfaces. Considering the important role that facial expression plays in communicating emotion in humans, there has been substantial research interest in computer vision systems to recognize human emotion. Certain facial expressions have universal meaning. Facial expressions that are universal across all cultures: anger, disgust, fear, happiness, sadness, and surprise.

I will be using Kaggle dataset for Facial expression recognition: <https://www.kaggle.com/deadskull7/fer2013#fer2013.csv>

In this project, we addressed the task of facial expression recognition and aimed to classify images of faces into any of seven discrete emotion categories that represent universal human emotions. The objective of this project is to classify images of human faces into discrete emotion categories. Many established facial expression recognition (FER) systems use standard machine learning and extracted features, which do not have significant performance when applied to previously unseen data. Deep learning for FER has been successful at achieving better accuracy on the previously unseen data. Noting the success of CNNs in this domain, our objective is to experiment with both new and existing network architectures to achieve similar results on a new data set.