**Capstone Project**

**Emotions Detection**

**Context**

​Human beings communicate with each other in the form​ ​of speech, gestures, and emotions. As such, systems that can​ ​recognize the same are in great demand in many fields that aim to automate these visual and audio cues to communication. With respect to artificial intelligence, a computer will be able to interact with humans much more naturally if they are capable of understanding human emotions. Such a system would also be of great help in counseling and other healthcare-related fields.

The scope of applications for automatic facial emotion r​​ecognition is endless. For example, In an E-Learning system, the presentation style may even be varied​ ​depending on the student’s emotional state.

However, in many cases, static emotion detection alone is not very useful all by itself. It is essential to be aware of the user’s feelings over a period of time in a live environment.

**Objective**

The objective of the problem statement is to detect the Facial Emotion (Happy or Not happy) of a person.

**Data Dictionary**

This dataset contains 4446 48x48 grayscale images which are divided into two classes - Happy or Not happy

**Note:** You will get a zip folder containing the image dataset along with a sample notebook having instructions on how to get that dataset in google colab.