**Project Introduction: Sentimental AI**

This project will focus on the very fundamentals of Sentiment Analysis using Natural Language Processing. We will use standard packages and libraries but will try to bring out the intuition behind each project.

There will be no hard and fixed timeline. The main goal of this project will be for students to understand and learn the hard way, there each topic will focus on literature review, assignments, youtube videos, and a live discussion session.

Midterm eval: individual report and documentation -> overall report upto RNNs

Endterm Eval-> Complete report upto Emoji classifier

Week 1: Basics of ML and DL

Week 2: Basics of ML and DL  
Week 3: CNNs, RNNs, and LSTMs

Week 4: Train RNNs and LSTMs

Week 5: Transformers

Week 6: Implementing emoji classifier

Week 7: Implementing emoji classifier

Sample Content:

* <https://github.com/hitesh-anand/Tweet-Emotion-Detection-with-Tensorflow/blob/main/Tweet_Emotion_Detection.ipynb>
* https://youtube.com/playlist?list=PLQY2H8rRoyvzDbLUZkbudP-MFQZwNmU4S
* <https://github.com/amanchadha/coursera-deep-learning-specialization/blob/master/C5%20-%20Sequence%20Models/Week%202/Emojify/Emoji_v3a.ipynb>
* (emojifier using sentiment analysis (uses Glove algorithms)