**Following things have been accomplished till now:**

1. Obtained the YouTube Datasets from the researchers
2. Feature Engineering:
   1. Audio Features: Used openSMILE software to extract audio features of You Tube datasets. Used different config file to extract audio features. The best one resulted in 6353 features
   2. Text features: Used TF-IDF to extract text features from the data.
   3. Fusing audio and text features: Combine the audio and text feature which resulted in more than 10,000 features for each data.
   4. Used PCA to reduce the number of features. Final features vector reduces to 189 features.
3. Training, Validation and Testing: 80% of the datasets were used for training and validation and remaining 20 % was used for testing.
4. Models implemented and tested:
   1. SVM
   2. RandomForestClassifier
   3. Logistic Regression
   4. Recurrent Neural Network.
5. Created the new TEAM datasets:
   1. Used 1200 annotated labeled sentences as positive or negative for recording.
   2. Each participant in the company were given 30 positive and 30 negative sentences. They were told to speak the sentences in a way they would have spoke those sentences in positive and negative mood.
   3. The sentences were obtained from a research paper [1]. The sentences were collected from three domains: Amazon Product review, IMDB movie review, and restaurant review.
   4. The creation of the TEAM datasets is finished.
6. Thing to do:
   1. Train and test all the models which have been implemented using TEAM datasets
   2. Design a joint model by combining RNN and CNN and train and test it with both the datasets.

**References:**

1. 'From Group to Individual Labels using Deep Features', Kotzias et. al,. KDD 2015