Python for Machine Learning

Course Project

1. **Team Members:**
    Kevin Saptel
    Samarth Subramanya

2. **Description of the feasibility of the selected project topic, including the data source (web links), potential machine learning approaches, and any references.**

    Topic: Fake News Detection Using Natural Language Processing

    i.   Feasibility: As the usage of social media increased, spreading of fake news have been increasing. To overcome this problem, fake news can be detected using Natural Language Processing and several machine learning algorithms.
    ii. Data Source: The dataset consists of several comments and news published on twitter, the dataset was available on kaggle.
    iii. Weblink: https://www.kaggle.com/c/nlp-getting-started/data
    iv. Approaches: The approaches we are planning is to analyze the word frequency, Using machine learning algorithm (Logistic Regression) to classify the news being shared is false or true and from which location is it being shared. We use NLP library to do most of the stuff.

3. **Define the duties of each team member clearly. Refer to the following list of common tasks:**

    i.   Topic Discussion (Kevin Saptel, Samarth Subramanya)

    ii. Data Collection (Samarth Subramanya)

    iii. Experiment Design (Samarth Subramanya)

    iv. Algorithm Implementation (Samarth Subramanya)

    v.   Presentation Preparation (Kevin Saptel)

    vi. Final Report (Kevin Saptel)