SESSION PLAN	
Session Name	Introduction to NLP

Learning Outcomes

- Understand why working with text data isn't like numerical or categorical data
- Know what is NLP
- Get a grasp on the basic building blocks of text
- Know how to implement tokenization, Stemming
- Know how to implement vectorization
- Know how to implement Naive Bayes classifier

Prerequisites for the Student

- Introduction to NLP - Go through the concept and solve the tasks and assessments.

Student Activities

- Discuss with the Mentor what you have learned.
- Overview of Introduction to NLP
    - Vectorization
    - Advanced vectorization with TF-IDF
    - Naive-Bayes Classifier
- Blog on Text Analytics:(16 min) https://towardsdatascience.com/introduction-to-natural-language-processing-for-text-df845750fb63
- State Difference between Stemming and Lemmatization?
- What are the cases in which TFIDF will be Zero?
- Why SVM is efficient in handling text data?
- Why StopWords are removed?
- Practice problem on Introduction to NLP
    - Refer the GitHub repo for problems
- Quiz on Introduction to NLP.
- Code Along
- Questions and Discussion on doubts - AMA

Next Session

- Concept - Topic Modelling on Text
- Key topics to be highlighted - highlight where they would need to spend more time and importance w.r.t Data Science.
    - What is Topic Modeling
    - Topic Modeling by implementing LSA
    - Topic Modeling by implementing LDA
    - Interpreting and Visualising Topic Models