What you learned last week with the MatLabLib tutorials, and what you learned from this tutorial, be thinking about an original Analysis Case Study that you will be developing throughout the rest of this course.

The first part of your original Analysis Case Study (Graph Analysis) will be part of your assignment for next week but you can start looking for ideas this week.,

Visualization feature space is not as easy when our data is text.

This is in apart because visualizing high-dimensional data is inherently more difficult but also because visualizing text data in python requires additional logic as compared to plotting purely numeric data.

By using Mataplotlib we can visualize feature analysis and feature engineering.

Feature analysis techniques:

n-gram time series, network analysis, and projection plots

Feature engineering techniques:

visual parts of speech tagging and frequency distributions

Model Diagnostics:

We will select and compare multiple models and will determine which model will perform well or poorly.

Model diagnostic techniques : Visualizing clusters, visualizing classes, confusion matrices, visual steering

Graphs are used to represent and model complex system in the real word such as communication network and biological ecosystems