**ATC Assignment**

### Data Understanding, Preparation, and EDA

### Data Reading/Data Understanding

### You have imported the .json data and created the dataframe from it. The learner also has to read the data and make the initial analysis out of it.

### Data Cleaning

### You have done data cleaning operations like filtering text, removing missing values &amp; renaming column headers.

### Data Preprocessing

### You have done Data pre-processing steps are done using statistical operations like Lemmatization & POS tagging.

### Data Visualization

### You have done the visualization steps for finding the word count distribution & n-gram distribution.

### Feature Extraction and Topic Modelling

### Feature Extraction

### You have extracted features from the data using Td-Idf.

### Topic Modelling

### You have assigned topic names are to each complaint

### Features are extracted from the data using Td-Idf.

### Topic names are assigned to each complaint

all this show good effort. good work . . .  .

### Model Building and Evaluation

### Model Building

### You have created multiple models using supervised learning

### Model inference

### You have applied the best model to predict a custom text to see its performance.

### Coding Guidelines

### Coding Guidelines - Good Practices

### Code readability is good with appropriate indentations

### Comments are used throughout the code to explain commands/steps. Appropriate naming of variables has been done (all model names)

### Concise code and appropriate commands are used instead of lengthy ones