Project Idea 1: Forecasting Engine

- Aim: Building a forecasting engine that allows users to upload a file (excel/csv) with data and evaluate multiple forecasting techniques on it
- The engine will be modular:
 - Part one allows visualization of time series by breaking it into seasonal, trend and random components, ACF and PACF graphs etc
 - Also if multiple time series are added then correlation and causality graphs could be evaluated
 - Part two will be where user can select different algorithms and evaluate performance on the selected timeseries
 - Part three will be where user can export output graphs and values in the desired format

Project Idea 2: Using Amazon product reviews to identify key topics for product categories

Aim: Phase 1

Select a product category for Amazon and use LDA to identify multiple topics in the reviews

Phase 2

Use Doc2Vec on the product level aggregate reviews and build a recommendation engine strictly on reviews

- Output: User will select a product within a category and based on the reviews the user will be shown key topics about the product. For example: Upon selecting a book title the user will be shown
 - a. Poor binding or page quality
 - b. Brisk Read
 - c. Value for money

Phase 2 output will be recommendation to user based on the reviews using Doc2Vec as basis of similarity or disimilarity

Project Idea 3: Soccer match prediction model

- **Aim**: Predicting probability of win loss or draw in a match of soccer. Variable considered will be player attribute, team formation, recent past performance, home or away game and fatigue
- Output: Probability spread of win/ loss or draw for a team based on the variables and events like player injury/ cards or suspentions