

ST 344, GROUP 8: PROJECT PLAN

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The code for project will be hosted on GitHub with the documents being written using Overleaf. The meetings will provide times for us to discuss our progress, merge our finished code onto the Master Branch and give each team member a chance to vocalise ideas in person. In general, we will be splitting into sub-groups for each task. Yuhan and Andrei will work on task 1, Stephen and Gabriel will work on task 2, although, both groups may help out with the workload of the other task.

MEETINGS (BETWEEN 21ST OCTOBER AND 2ND DECEMBER):

- As a group: 10.30am - 11.30am on Mondays and 4-5pm on Fridays.
- With module leader: 11.30am-12.00pm on Mondays

OBJECTIVES:

An overview of our key objectives and deadlines can be found in more details at Figure 1.

1. To predict what type of music will be popular, in order to help the company invest in artists that will help them make a profit.
 - (a) Exploratory Data Analysis (EDA) into the popularity of different artists and tracks.
 - (b) Formulate models to predict what music will be popular in near future.
 - (c) Test the models using training dataset to come up with optimal model.
2. To produce a system for recommending new music based on the tastes of a listener.
 - (a) Exploratory Data Analysis into clustering of different tracks and songs.
 - (b) Use clustering to recommend other songs with similar attributes based on current song.
 - (c) Sample the training data for songs and provide recommendations based on chosen song.
 - (d) If there is extra time, attempt a recommendation system that considers the previous n tracks listened to.

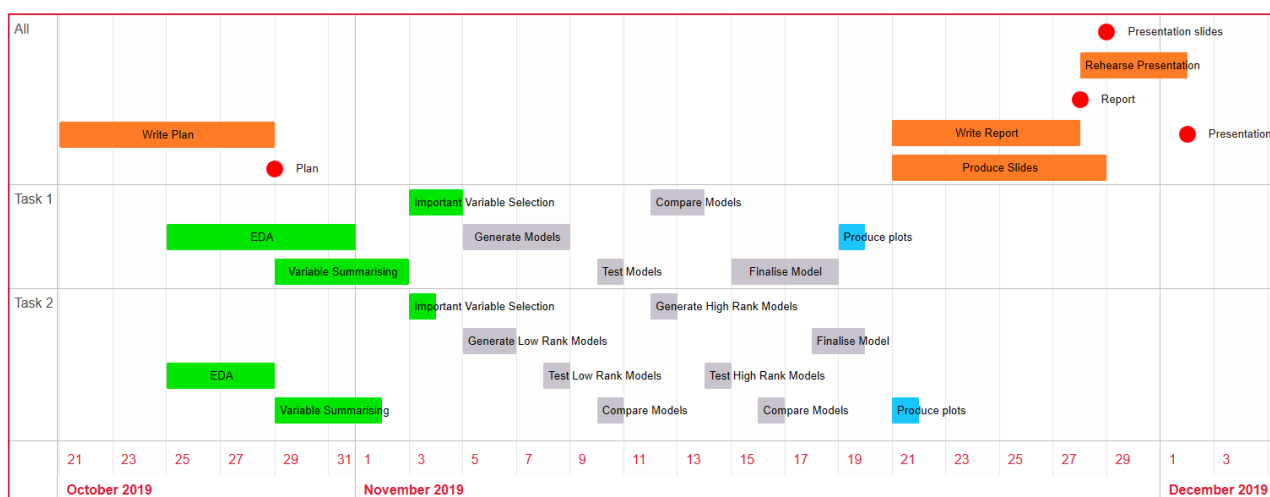


Figure 1: Project Timeline
Gantt software, Dataset