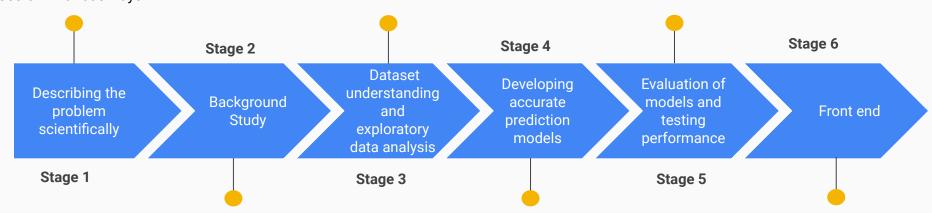# Predicting Student Dropout and Academic Success

Group 19 Project Roadmap

Introduce project topic and background. Describe how machine learning modeling can be used to predict student outcomes and how it can be useful in various ways.

Summarize and visualize the dataset and some attributes. Explore important dataset attributes using techniques and use plots for visual purposes.

For each model, explain the model and discuss accuracy. Can also compare the models and their accuracy to each other. Then, identify the most accurate model.

Stage 2

Stage 4

Stage 6

Describing the problem scientifically

Background Study

Dataset understanding and exploratory data analysis

Developing accurate prediction models

Evaluation of models and testing performance

Front end

Stage 1

Stage 3

Stage 5

Literature review will help and provide references on how to explore the dataset using certain techniques and what possible machine learning models to use.

Preprocess the data and then use different models with certain consistent parameters to compare each one and get the most accurate model.

Front end contains inputs using important attributes found during data exploration. Inputs used to predict student outcomes of graduation or dropped out.