Final Project Proposal – Sako Kassabian

# There exists a problem

Students are constantly being tested. Papers continually being graded. Events being organized. Go, go, go. It’s like a machine. Every year, over and over. For the administrator, they see hundreds to thousands of students each year. It becomes a blur. Often feeling powerless in their altruistic desire to help these students overcome obstacles. It’s difficult and rare that administration would dive a bit deeper into reviewing test scores year over year and look at student growth or decline.

# How can it bring value?

Most schools are using some sort of enterprise system that tracks their student’s data such as demographics, attendance, grades, etc. Most of the time data is only travelling in one direction and is rarely looked at. Providing a way that allows schools to enter their student’s testing/attendance/ grades data in and show them information that may lead to action would be invaluable to them.

# Where is the data coming from?

The data is being provided from an old colleague (permission obtained) that contains anonymous student data from a few schools. In production, it would be your own school.

# Techniques from the course

Visualization, data cleaning, making sure the data tells a story, supervised and unsupervised methods, mixed effect model

# Challenge?

Our data might be biased in demographic as some schools are heavily biased to one demographic. While this may not be a problem when taken into context, the conclusions that may arise must take this into account. We may also have a problem that each schools does not have tons of data.