**Project Title:**

Are there potential factors leading to higher school dropout rates in Florida?

**Team Members:**

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**Project Description/Outline:**

The project will investigate Florida and National education data sets to determine if there are potential factors that could lead to a higher drop rate in individual school districts. It will compare 20 school districts offering PreK -12grade that fall closest to the mean dropout rate for the 2014-2015 school year.

**Null Hypothesis:**

No correlation will be found after analyzing data comparing district dropout rates with teacher, demographic, and district funding factors.

**Alternate Hypothesis:**

A correlation will be found after analyzing data comparing district dropout rates with teacher, demographic, and district funding factors.

**Datasets to be used:**

* Florida Department of Education
* Urban institute Education Data Portal
  + Common core of data
  + US Census Bureau's Small Area Income and Poverty Estimates
  + US Department of Education EdFacts

**Rough Breakdown of Tasks:**

* Review all data sources and identify specific import data
* Merge all data points into one large dataframe and csv
* Breakdown individual analysis:
  + Determine the mean dropout rate for the 67 Florida counties offering PreK -12 grade
  + Select the 20 school districts that are closest to the mean
* Analyze difference between top 5 and lower 5:
  + Absentee standpoint correlation with dropout
  + Compare demographics across whole school district
    - Poverty percentage
    - Enrollment size
    - Free and reduced lunches
  + Analyze the teachers
    - Teachers salary
    - Critical teacher shortage areas
    - In field and out of field
  + Financials
    - School financials
      * Per student cost
      * District funding for schools