KPI-stakeholder.md 2024-10-03

# **KPI** and Stakeholder Statement

Shannon Jay McElhenney, Raymond Tana, Prabhat Devkota, Jung-Tsung Li

## **Summary of Project**

AP Outcomes are often correlated to measures of socioeconomic factors. There is a somewhat reduced relationship between universities in a state and the income of that state. We are identifying relationships between Carnegie classifications of universities in a state and College Board AP Exam metrics.

### **Description of Dataset**

- 1. Carnegie University Classifications
  - o Carnegie is the organization maintaining the classification of universities.
  - Data includes many basic and specialized university categories (ex. R1/R2, historically black universities, hispanic serving institutions).
  - Includes university state/city
- 2. AP Metric Data from the College Board
  - Must be obtained from College Board
  - Metrics include outcome, availability, and amount of students taking exams aggregated to most likely the state level

### **KPIs**

#### Predictive verification

1. Universities are classified only about every 4 years. Does the classification predict well year over year as measured in the last year before reclassification?

#### Trends to identify for potential predictions

- 1. Depending on the distribution of types of unviersities what distributions have seemingly beneficial outcome for AP results?
- 2. Corrected for population (or geographic area), does having more of X university type improve AP outcome?
- 3. Corrected for region of the united states are there trends?
- 4. Relationship between minority schools and minority performance for example historically black institutions or hispanic serving?

#### Stakeholders

- 1. University decision makers
- 2. High schools
- 3. Parents looking to decide places to live
- 4. Education departments at the state or district level