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**2023 AGA Datathon Abstract Submission**

Team Name:

Marymount

Team Members:

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Federal funding impact on graduation rates considering ethnicity in each sate

Application Name:

Our project seeks to analyze how federal funding compares with other variables such as number of patents developed, and unemployed population in impacting the graduation rates. We are performing summary statistics in each variable to understand the data better and performing correlation analysis and multi linear regression analysis between these variables to understand their relationship with graduation rates. We are also looking at the data for demographics to understand how each of these might be related to the population of minorities in each state.

Application Summary:

50 words or less

This project aims to understand the effect of federal funds, number of patents, and population of unemployed people has on graduation rates considering the racial differences in each state throughout a timeline of 2000-2020. As per our hypothesis, we are expecting a positive relationship between graduation rates and all of our variables, but we will be using regression analysis to understand the effect better. We will also be looking at the summary statistics on each of these variables to understand the nature and differing values within each values. Along with that, we will be working with the summary statistics and relative differences between racial diversity within states to see if it has any effect on any of the above listed variables. The tools we will be mainly using for data analysis will be Python and Google Sheets.

Application Abstract:

250 words max

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