Predicting Achievement in Mathematics

Presented by: Erica, Melissa, & Jess

Reason for Choosing Mathematics Achievement

- Two of the three members are currently classroom teachers
- Achievement in mathematics develops critical thinking skills, is essential for many careers, promotes intellectual curiosity, enhances cognitive abilities, and can lead to innovation.

Description of Data Source

We chose to use a fictional dataset due to the ethical and legal concerns about using real student data. The site we used provides data solely for data science training purpose.

Question Guiding the Project

What factors best predict mathematics achievement?

Data Exploration Phase

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Analysis Phase

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Technologies, Languages, Tools, & Algorithms

PostgreSQL/ PGAdmin	Jupyter Lab/ Notebook	Python	Google Slides
PANDAS	SKlearn	Tableau	SQL Alchemy
Logistic Regression	Balanced Random Forest		

members

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chart

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