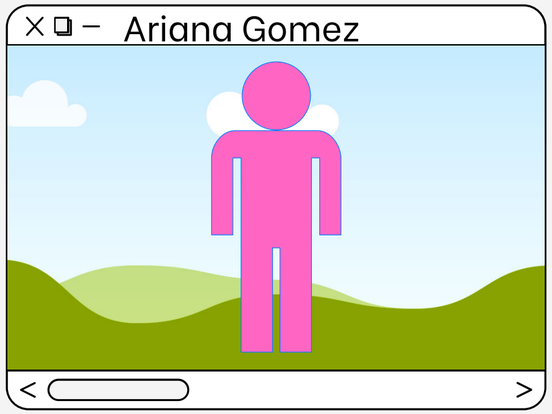
AI Camp

How to be a master coder!

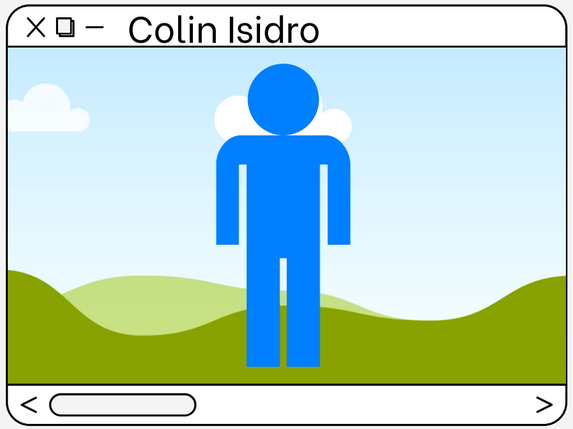
Student Performance Dashboard

Crazy Diamond

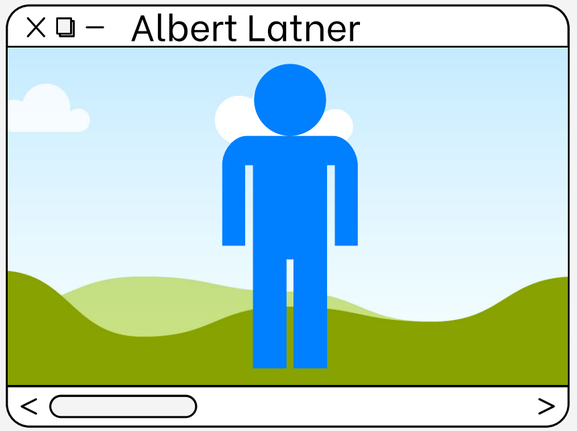
The Team



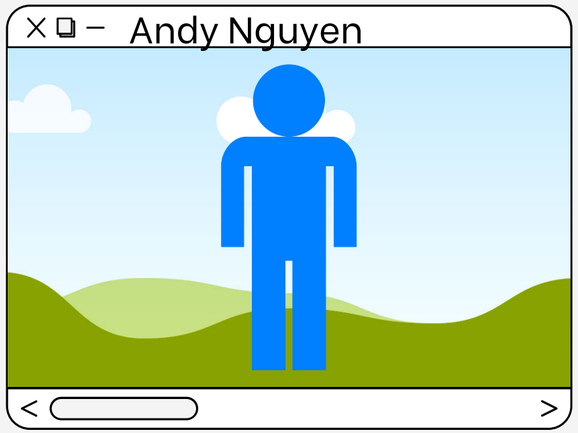
Student



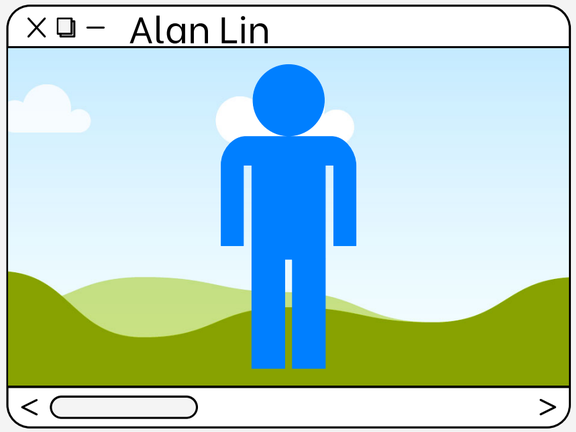
Student



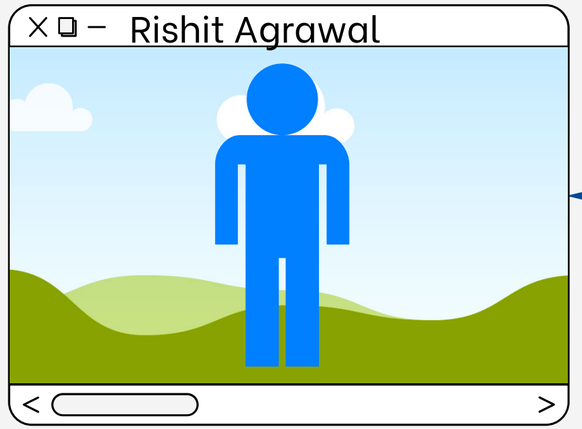
Student



Student



Student



Student

Goal of this project

Our goal of this project is explore and learn data science by creating a website that displays exams performances with various factors that affect academic performance.

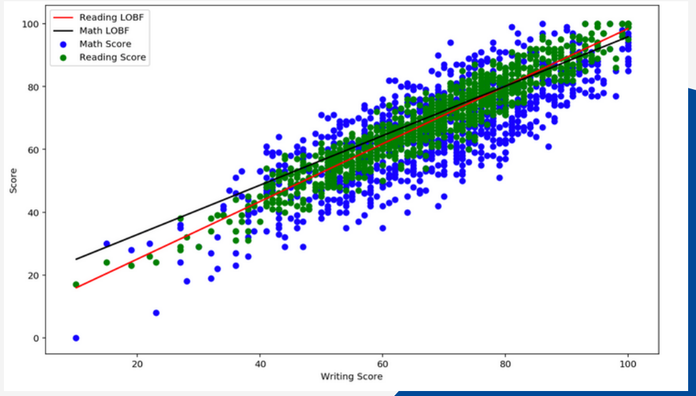
data set:
https://www.kaggle.com/spscientist/students-performance-in-exams

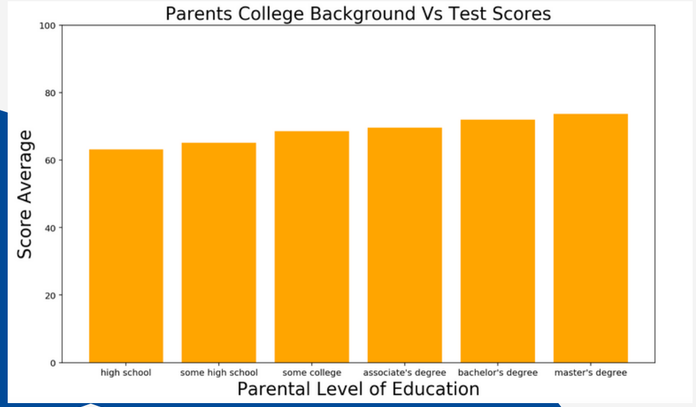
Why did we choose this data?

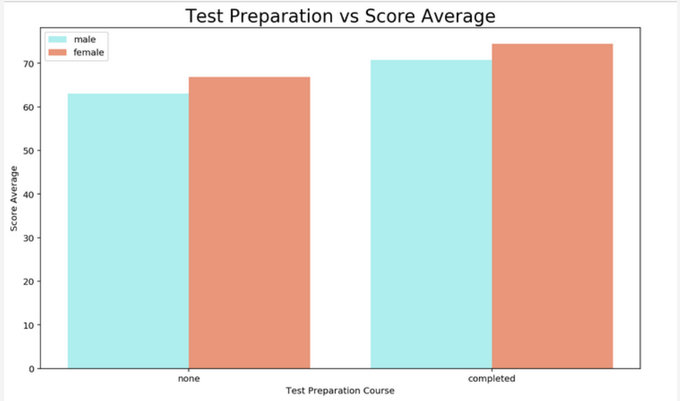
We focused on students performance in exams influenced by factors such as gender, race/ethnicity, parental level of education, and test preparation to analyze the correlation between said factors and how these affect them academically.

How we started

- Create function for pandas df
- Load in csv and analyze the data table. Create sum and average for the Test Scores
- Once the Test Scores were summarized, the data was ready to be graphed.







What Did We Do After Completing the Graphs?

1

We converted the graphs to functions and made it work with Seaborn.

2

We decided what features we wanted to have in the website such as: buttons to switch dependent varables for a graph.

3

A function to have a graph show specific values when we hover over it.

4

And last, having a description for why we chose this dataset as well as having background design.

5

We split into three groups of two to work on those features.

Conclusions

Search

What did we learn?

- Collaboration as a team
- Python basics
- The importance of collecting data and displaying it in a user-friendly way

What challenges did we come across?

- Converting our functions from matplotlib to seaborn and plotly
- Adding extra features to make it more user-friendly and make it easier to understand the data

Save

Cancel

What we would like to improve in the future for this project!

- Learning the general code for creating our programs
- Having more time to be as efficient as possible
- Building a more visual graph that further allows the user to understand what they are looking at
- Seeing which combination of variables would result in the highest test scores
- Using parents data to predict the exam scores of their offspring

Thank you!