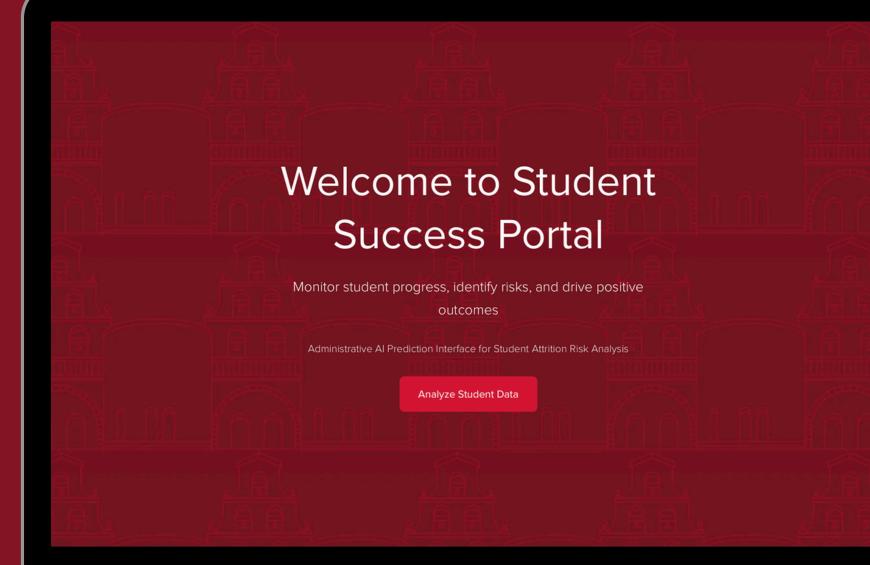
SDSU San Diego State University

Predicting Student Attrition Through Housing Data

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Jess Alencaster
Julianna Arias





Meet the Team



Mohith Kanthamneni

Kenny Garcia





Viridiana Delgado

Jess Alencaster





Julianna Arias



The Problem

\$20,000+

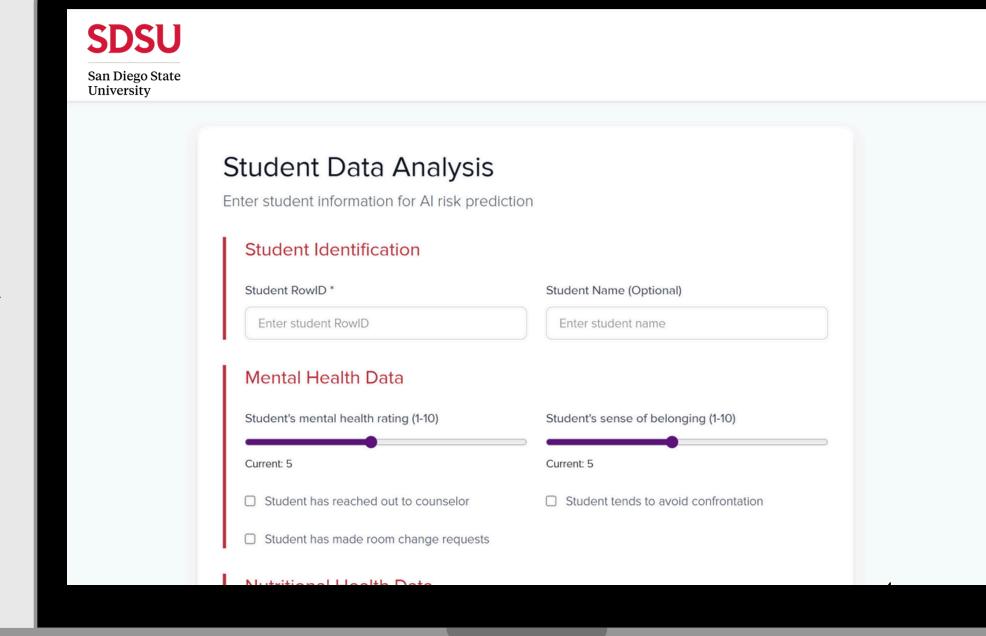
Annual Housing Revenue lost for every freshman student who drops out

of SDSU students live offcampus



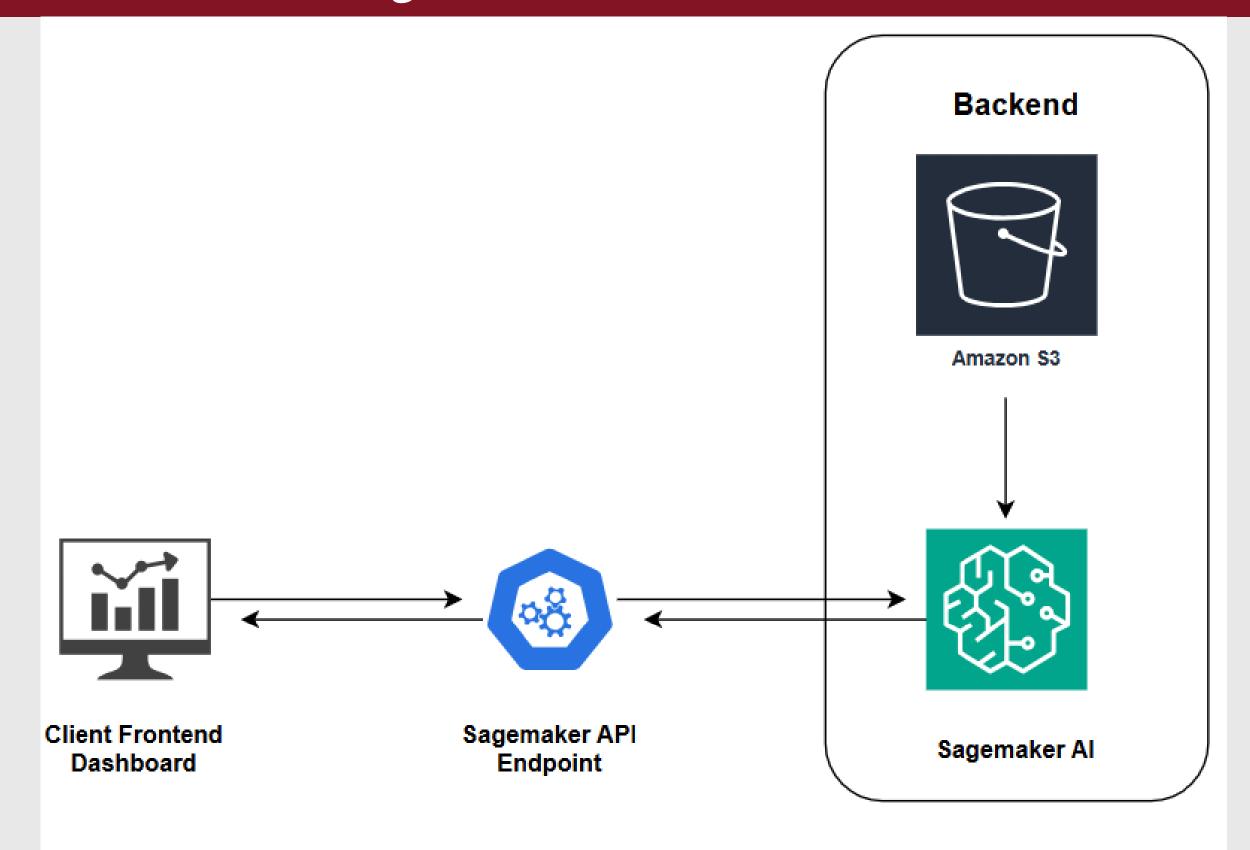
Dashboard Features

- Dashboard structured around customer needs: housing administration.
- Includes main portal and student information form based on chosen data columns.
- Submission results in student's risk of dropping out and contributing factors.





Project Structure





Project Design

Dataset

StarRez Housing Data (**16 out of 23 CSU campuses** use this system), Student Preferences survey, Housing assignment data, Learning communities and Academic Performance

Data Processing

Tools utilized: Jupyter Notebook, Copilot, Pandas

- 1. Created an EC2 server and virtual environment to host a Jupyter notebook.
- 2. Imported Pandas libraries and csv file data
- 3. Explored an AI predictive analysis model
- 4. Performed data transformation in the form of encodings.

Model Training

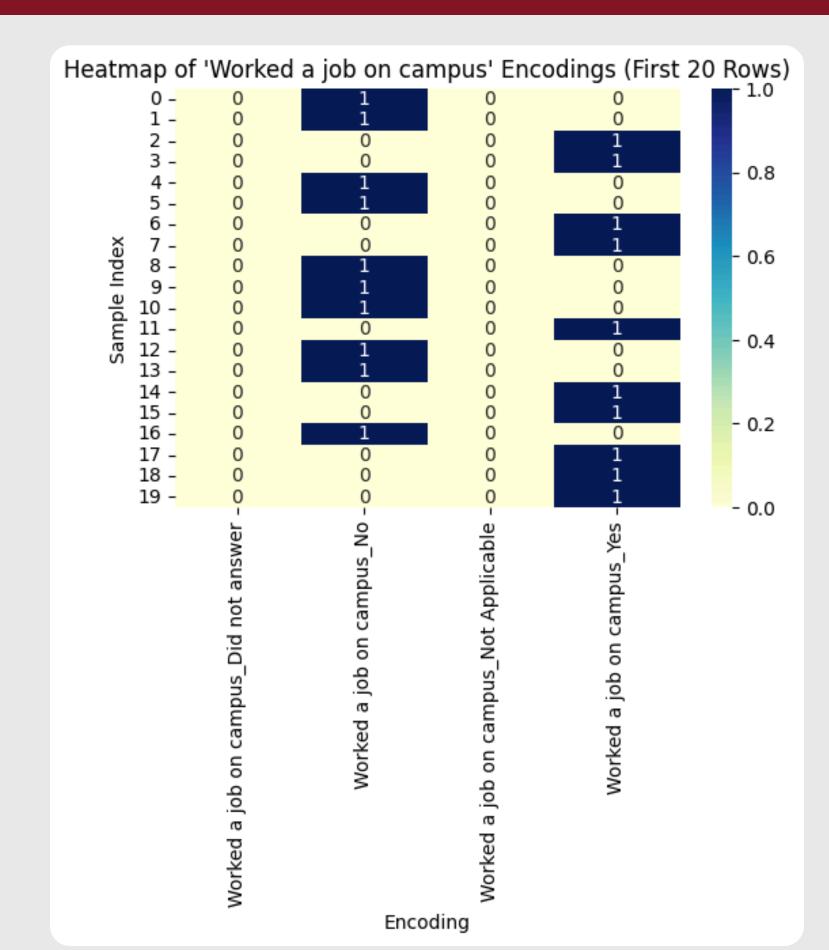
Cleaned data was utilized for model analysis:

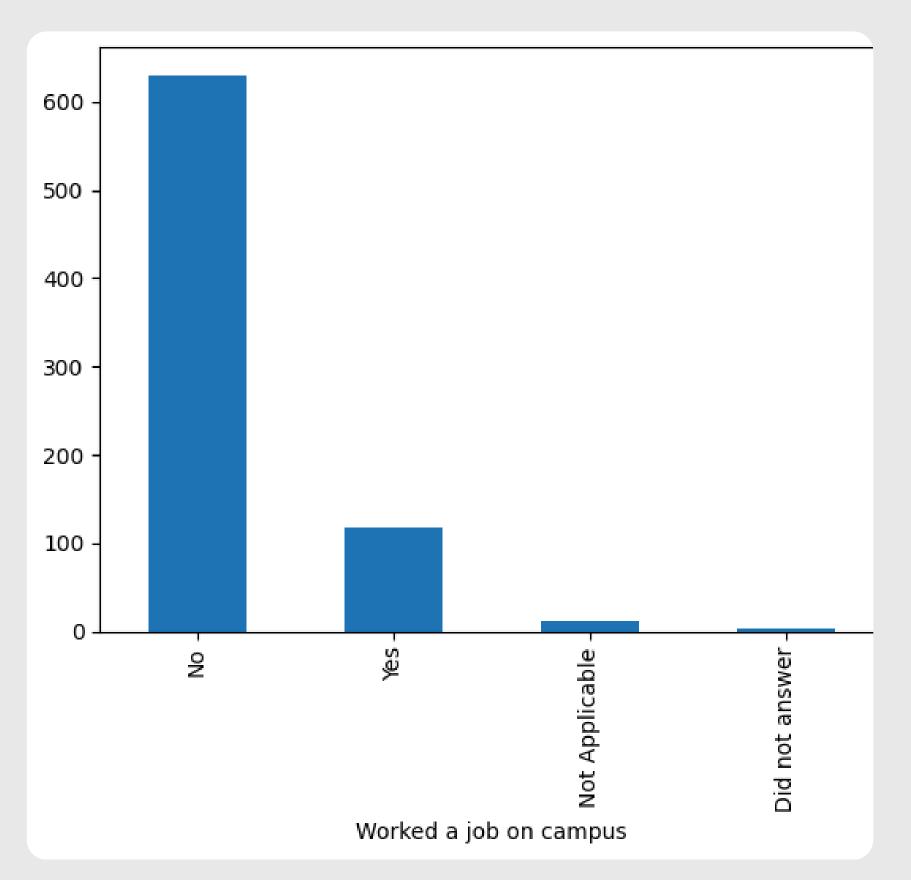
- Logistical Regression
- Random Forest
- Sigmoid Neuron

Sigmoid f1: 0.86



Data Visualization and Heat Maps









Think Retention.

Predict the Future.

Empower Every Student.



