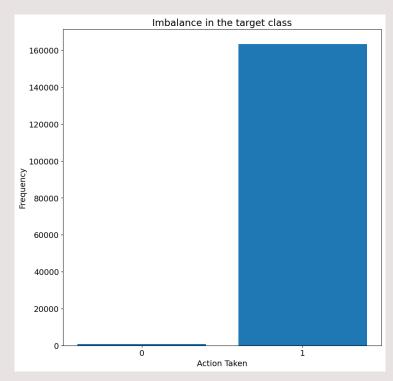


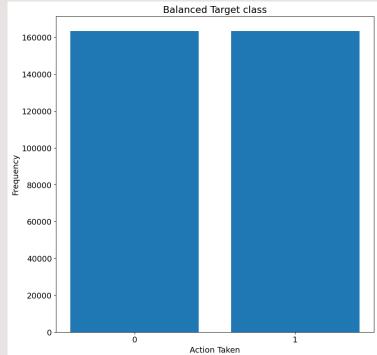
## Home Mortgage Approval

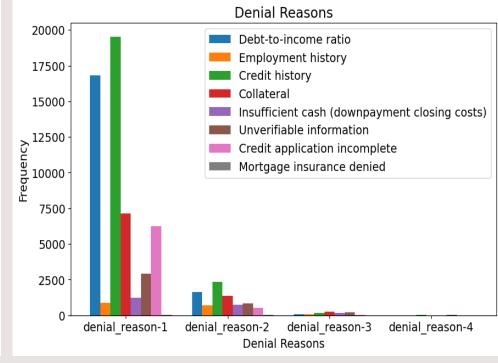
Ankit Mistry and Shivam Mistry

## Dataset

The dataset used for this project was sourced from the Home Mortgage Disclosure Act (HMDA) for the year 2022, specifically focused on the state of Tennessee.







## ML Methods

- > The MLP Classifier:
  - >Hyperparameters: learning\_rate\_init, hidden\_layer\_sizes
- Random Forest Classifier:
  - ➤ Hyperparameters: max\_depth
- AdaBoost Classifier:
  - ➤ Hyperparameters: n\_estimators

	MLP Classifier	Random Forest	AdaBoost
Training Accuracy	99.3%	99.9%	99.3%
Testing Accuracy	98.8%	99.6%	98.8%
F1 Score	99.4	99.8	99.4

