Adult

Annual Income

Prediction

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Michael Menjares

Project Description

The purpose of this project is to predict whether an adult individual would be classified into either annual income class: above \$50,000 or below \$50,000.

This would be based on factors such as education level, age, gender, occupation, etc.



Adult Income Dataset

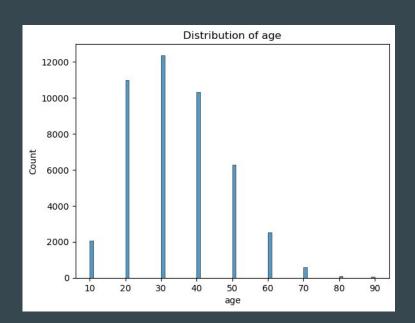
- The dataset is hosted on kaggle.com but is originally from the 1994 US
 Census database and was extracted by Barry Becker.
- There are 14 columns of demographic features for predicting the income outcome of either '>50K' or '<=50K'
- The dataset contains about 49,000 entries

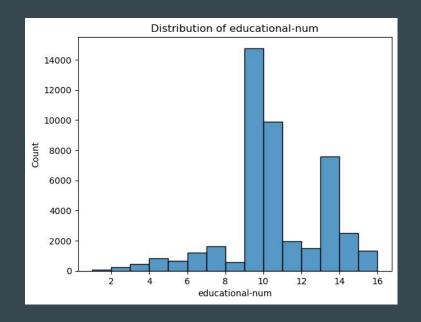
Age	Workclass	Final Weight	Education	Education-Num
Marital Status	Occupation	Relationship	Race	Gender
Capital-Gain	Capital-Loss	Hours-per-week	Native-Country	Income

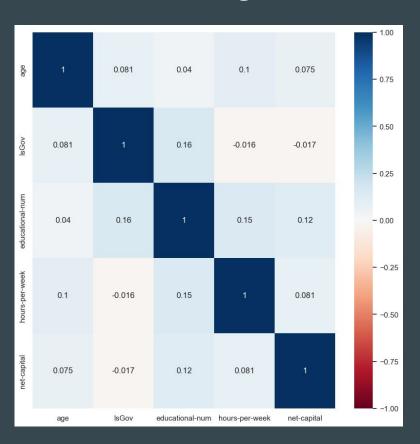
Stakeholders

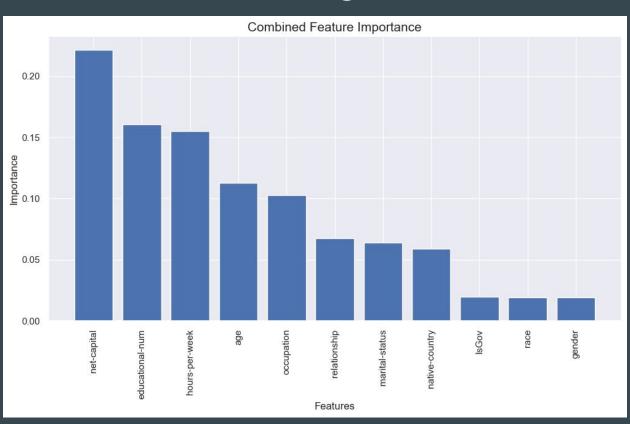
The stakeholders can be:

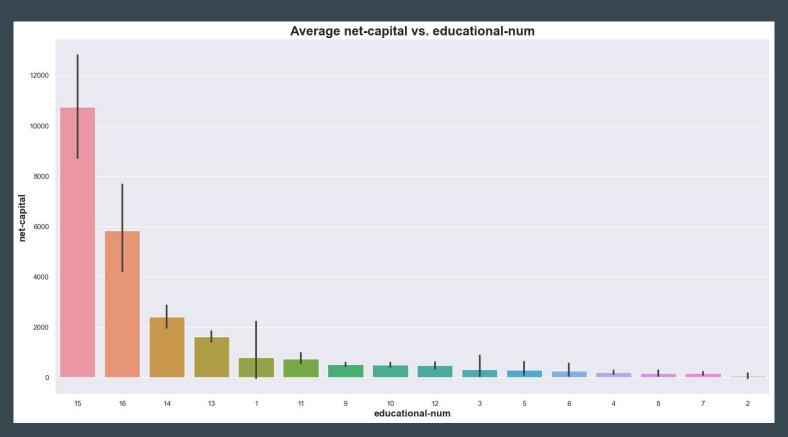
- -historians, considering the age of the dataset
- -non-profit or local organizations that want to know factors affecting lowering income communities
- -government agencies to track economic trends
- -business to learn who to cater their products to

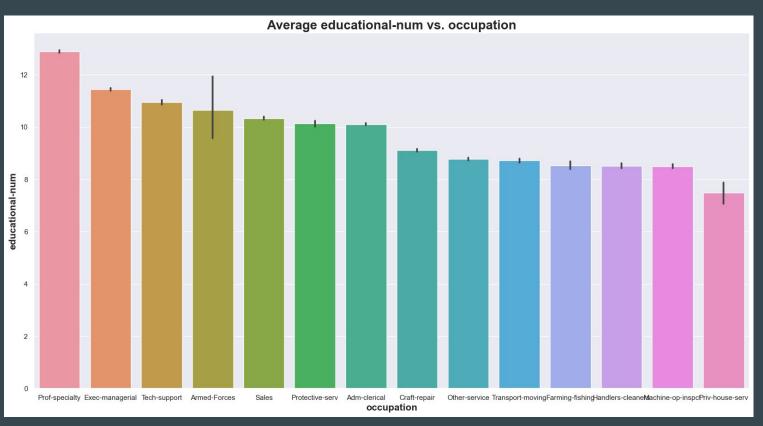


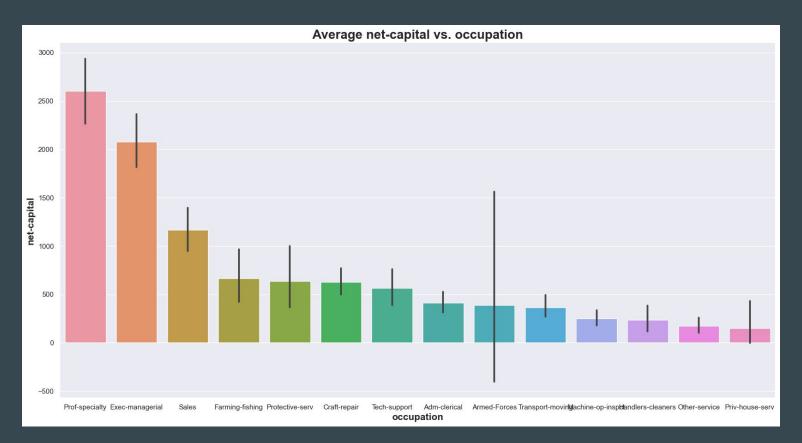


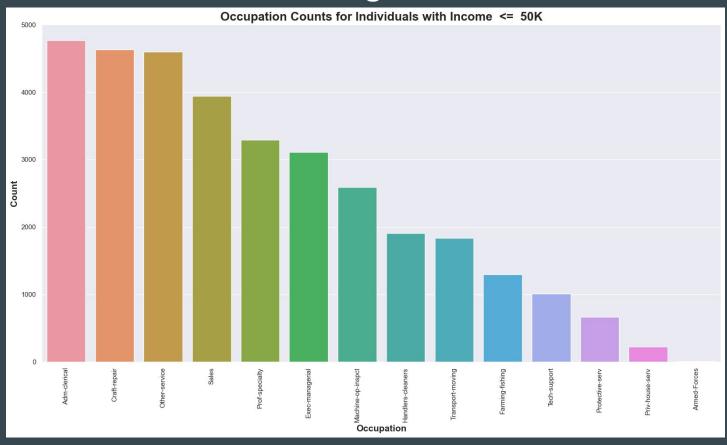


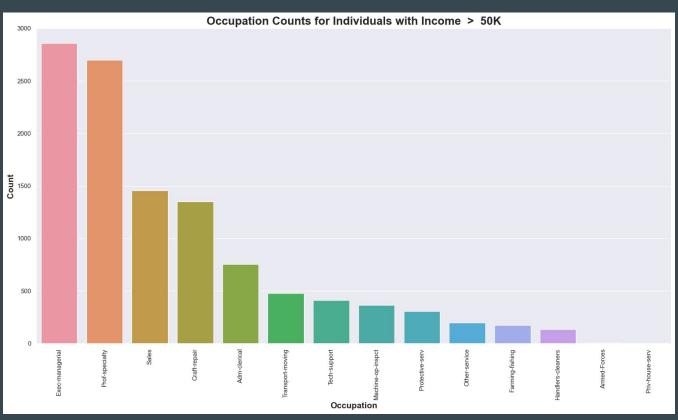






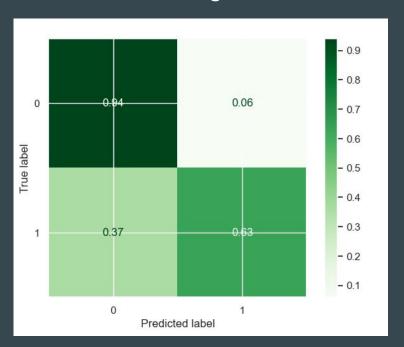




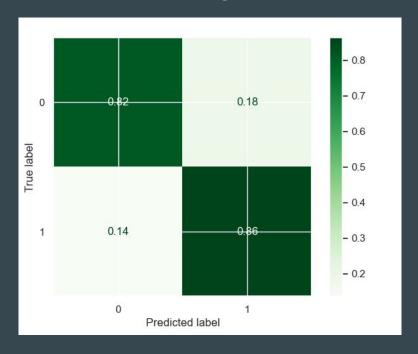


Best Model: LGBM

Not Weighted



Not Weighted



Recommendations

I would like to see a current dataset to compare changes since the last 30 years

I would also like to recommend more attention to the factors that may lead to a lower income to find patterns to assist lower income areas