

Adult Income Prediction

Anjali Prakash





Project Description



The purpose of this project is to use various features (such as age, race, hours worked etc) to predict the income of an individual.

This data set was sourced from [Kaggle - Adult Income Data Set](#). This dataset has 16 columns, utilizing 15 features to predict income of an individual.



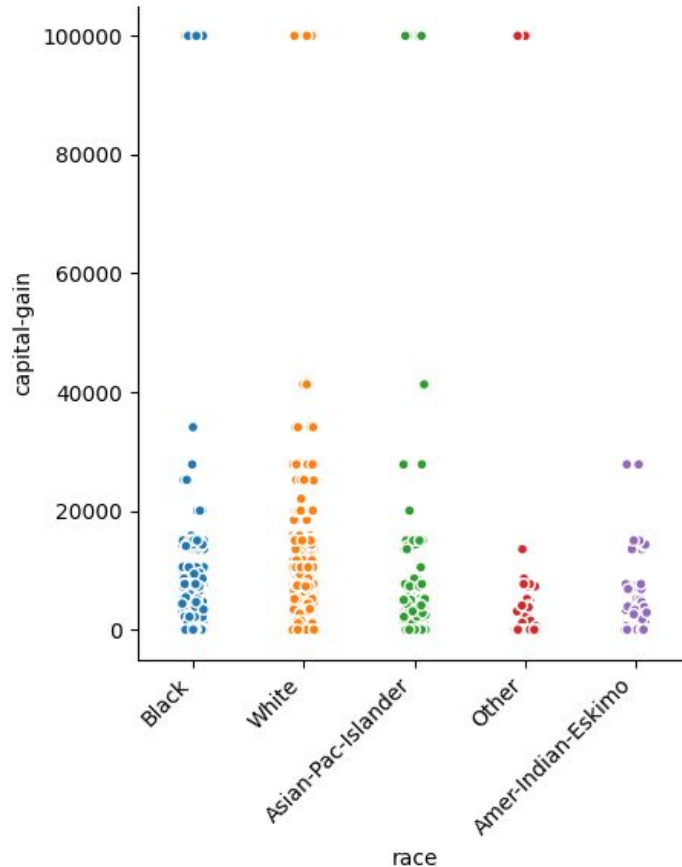
Stakeholders

The potential stakeholders for this project is extensive. Ranging from companies trying to market their product to individuals based on income or government programs that are trying to have an understanding of individuals' incomes based on various demographics.



Key Findings

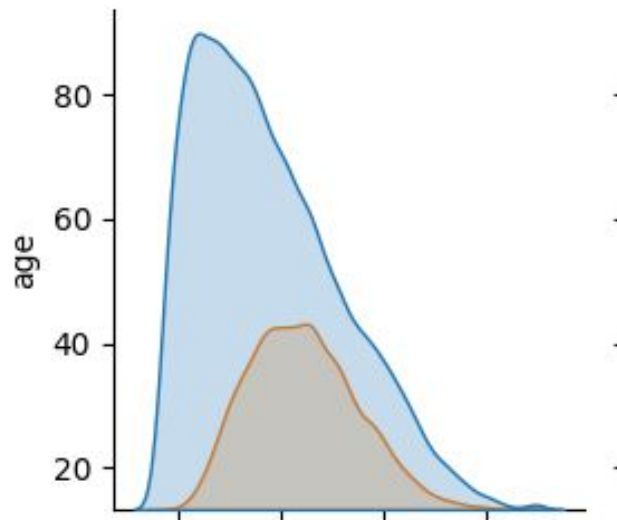
It appears that race has an interesting correlation to capital gain. White individuals appear to have the highest capital gain and individuals labelled as “other” have the least. This could be due to many factors including opportunity, generational wealth etc.





Key Findings

Looking at the following visualization, it appears that older individuals have a higher income on average. This can be due to individuals who are older having more work experience for example.





Recommendations

- I would recommend that stakeholders use the Random Forest Classification model as it appears to have the highest recall and accuracy amongst all the classification models used.
- False positives are still not at the ideal accuracy rate, so ideally they go through a manual review by stakeholders.