

# Predicting Annual Income

---

Investigating Factors Influencing Annual Income



# Introduction to Data

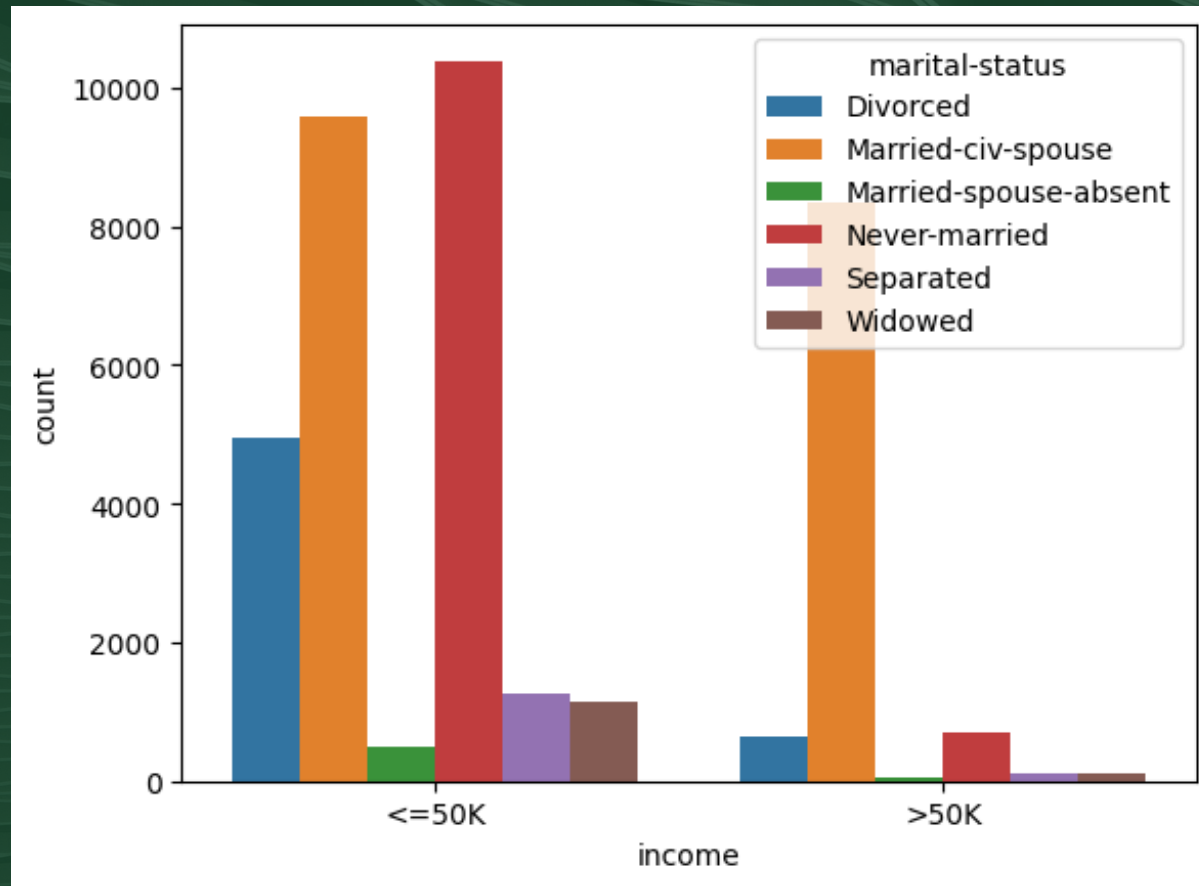
- 48,000+ individuals
- 12 Different Factors
  - Age, Education Level, Marital Status, Occupation, Race, Gender, Native Country, etc.
- Goal: Classify, based on this personal information, if a person makes more or less than 50k a year

Predicting Annual Income

---

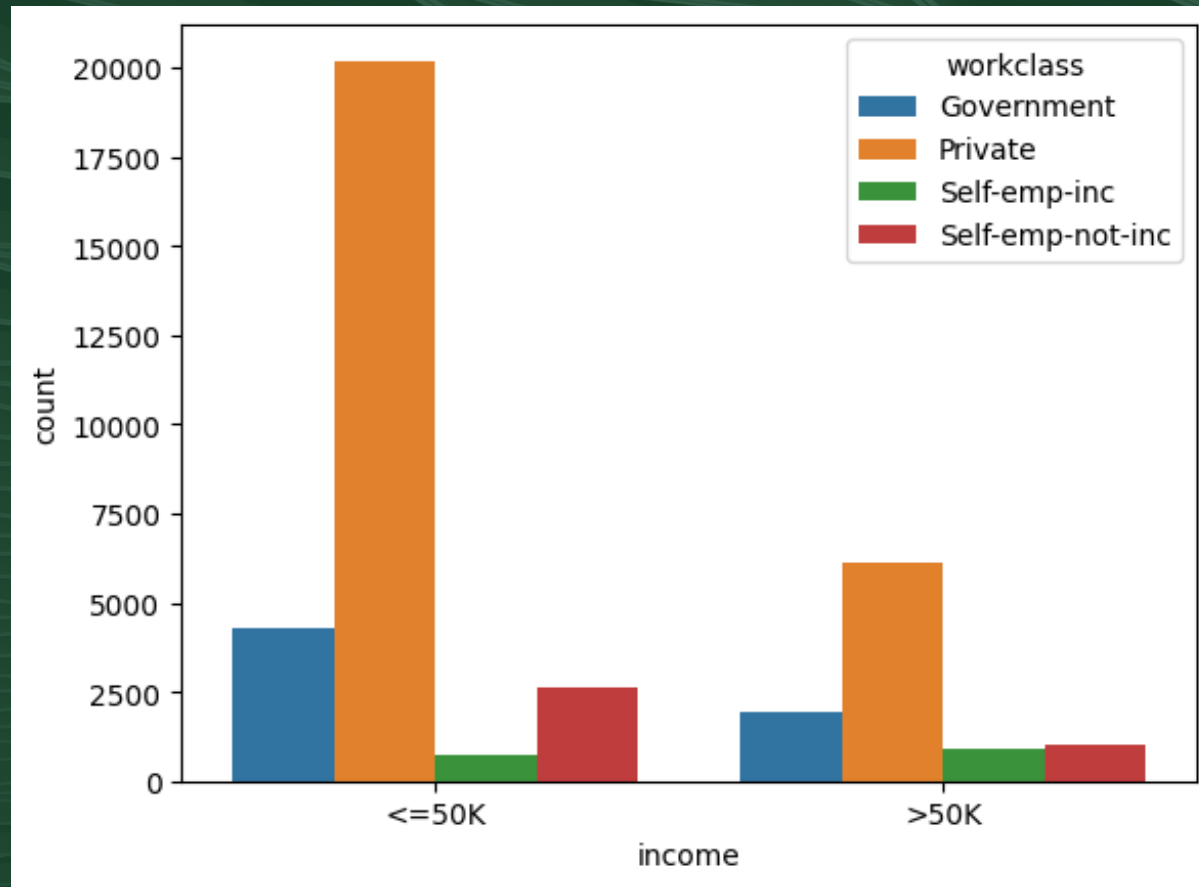


# Visualizations



Those who have never been married seem to make less than those who are married and living with their spouse.

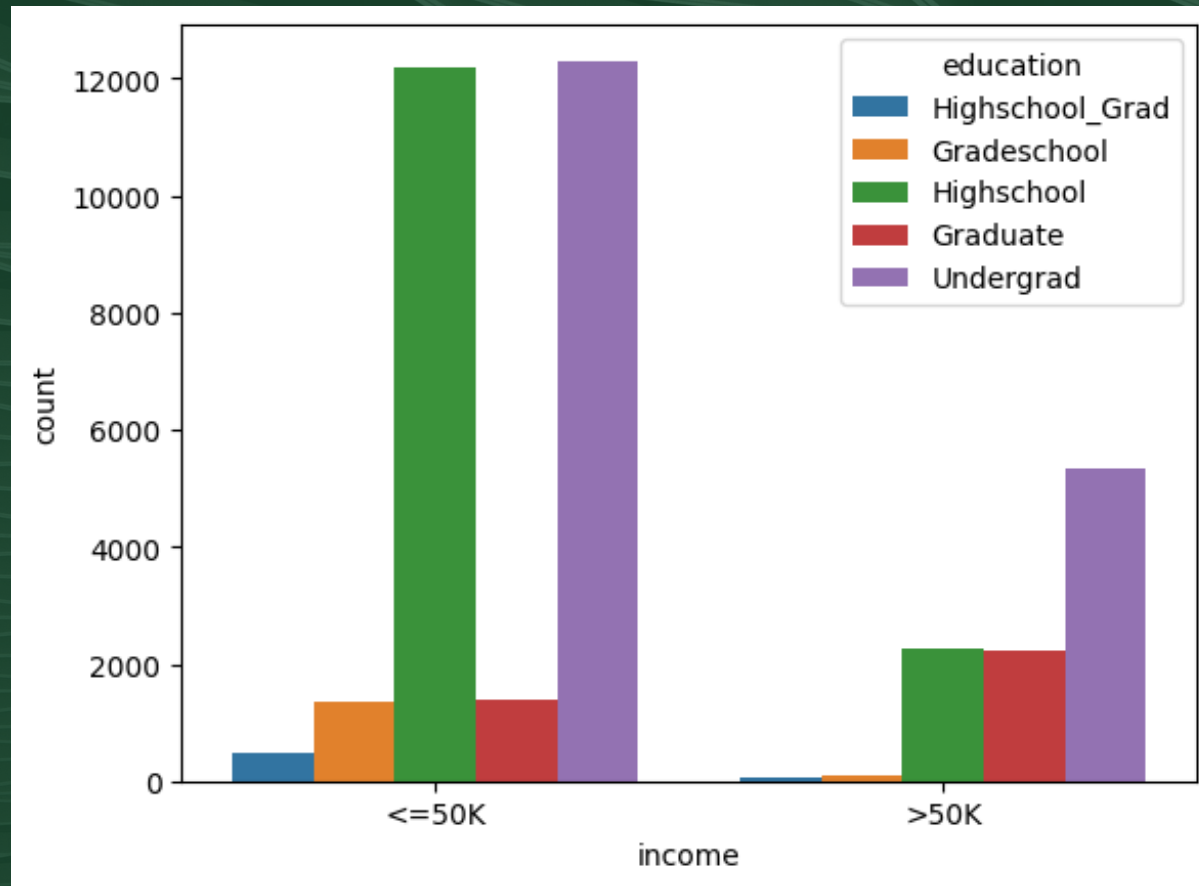
# Visualizations



The private sector seems to be the place to work to make the most amount of money.



# Visualizations



Undergraduates seem to make the most money.



# Strengths & Limitations of Model

- Out of all individuals the model predicted would make more than \$50,000 annually, 73% did
- Out of all individuals that actually did make more than \$50,000 annually, the model only predicted this outcome correctly for 36% of those people



# Strengths & Limitations of Model

- The model is great at predicting those who make less than, or equal to, \$50,000 annually.
- It is not as accurate at predicting those who make greater than \$50,000 annually.



# Strengths & Limitations of Model

- Globally, more people make less than, or equal to, \$50,000 annually.
- Easier to predict correctly.



# Final Recommendation

- Chosen model works relatively well.
- Further analysis and tuning could yield better results.