

# Analysis of Adult Income in the U.S.

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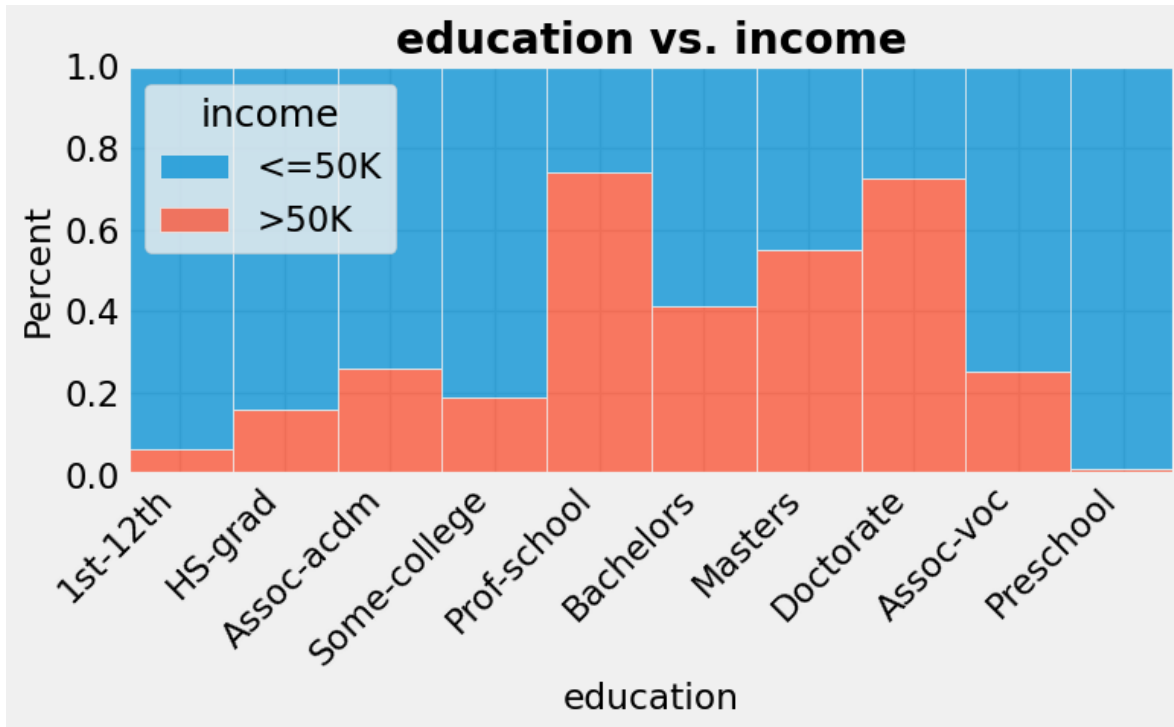
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# The problem

- Department of Health and Human Services
- How to outreach to lower-income households that may qualify for supportive services
- Creating the model based off the U.S. Census from 1994
  - Age, education, type of employment, marital status, race, gender

# Education vs. Income

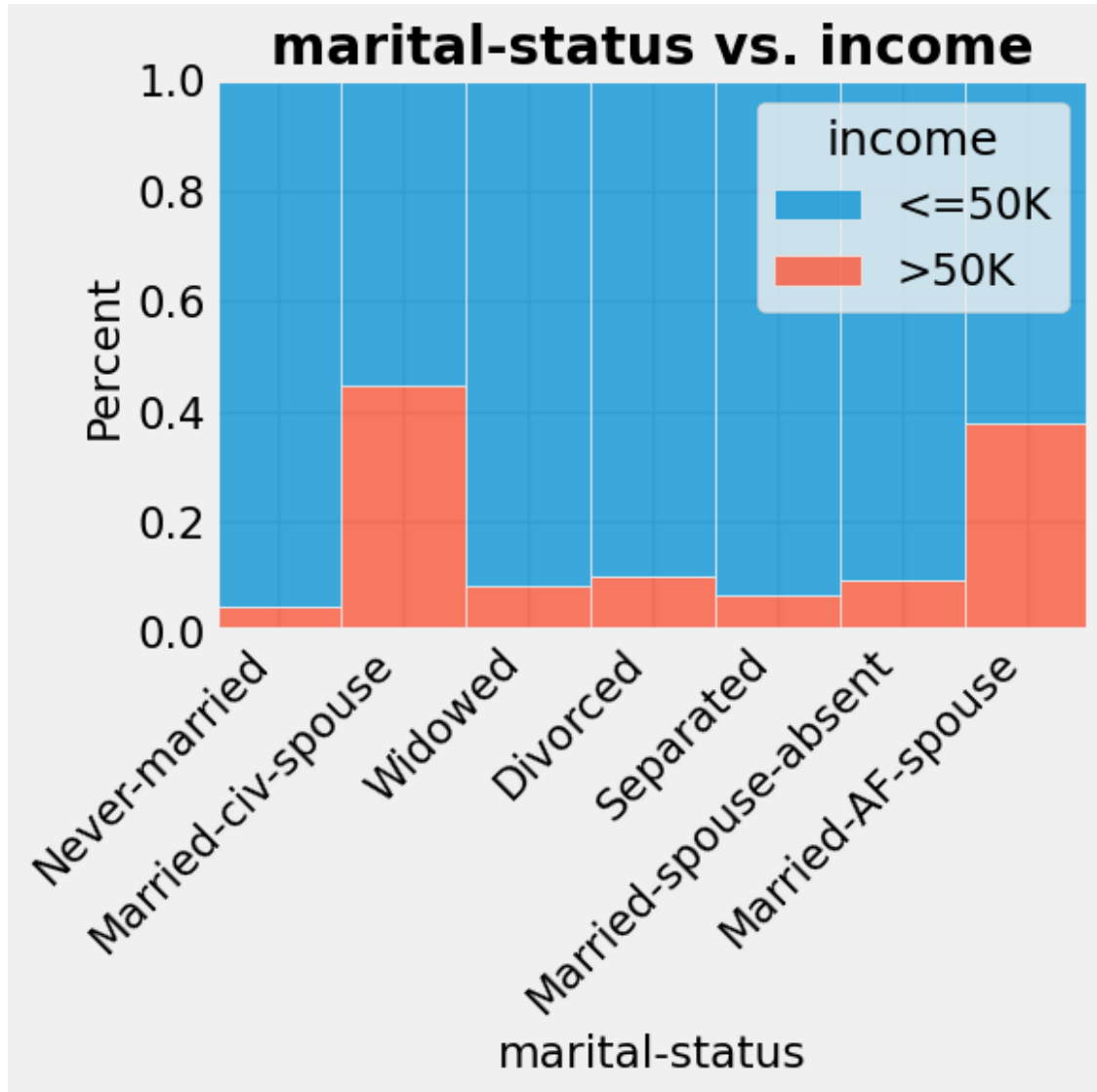
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- High correlation between increased years of education and higher income
- Higher-income majority seen post-graduate and above

# Marital Status vs. Income

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- High correlation between married households and higher income
- Still majority lower-income for these households



# Results

- Random Forest Classifier
    - Low rate of false positives/people who are low-income but are classified as high income
    - Lowest rate of false negatives/people who are high-income but classified as low income
  - Recommendations:
    - Further screening for income to combat the false negative rate
    - Emphasis on supportive services for pre-college graduates and individuals who are not currently married
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