# Salary Prediction

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Data Introduction & Stakeholder

- The data is from the 1994 US Census
- Includes features such as someone's education level, marital status, and professional sector
- Target is predicting whether someone makes more or less than $50,000 annually
- Potential stakeholders: Credit Card companies, banks, Marketing agencies

Years of Education per Age, Grouped by Salary Classes
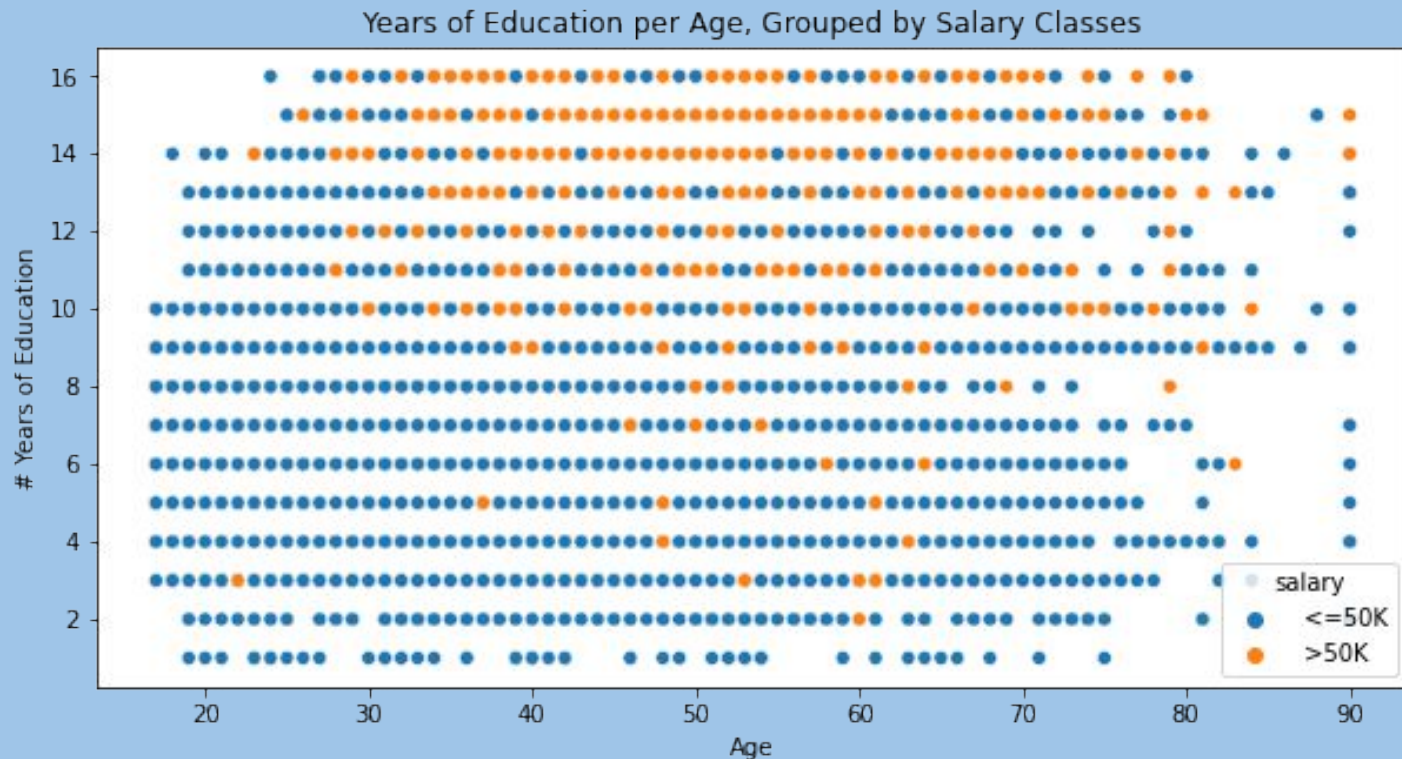
Between ages 32-61, people with at least 13 years of education are likely to have greater than 50K salaries.

Hours Worked per Week by Industry, Grouped by Sex
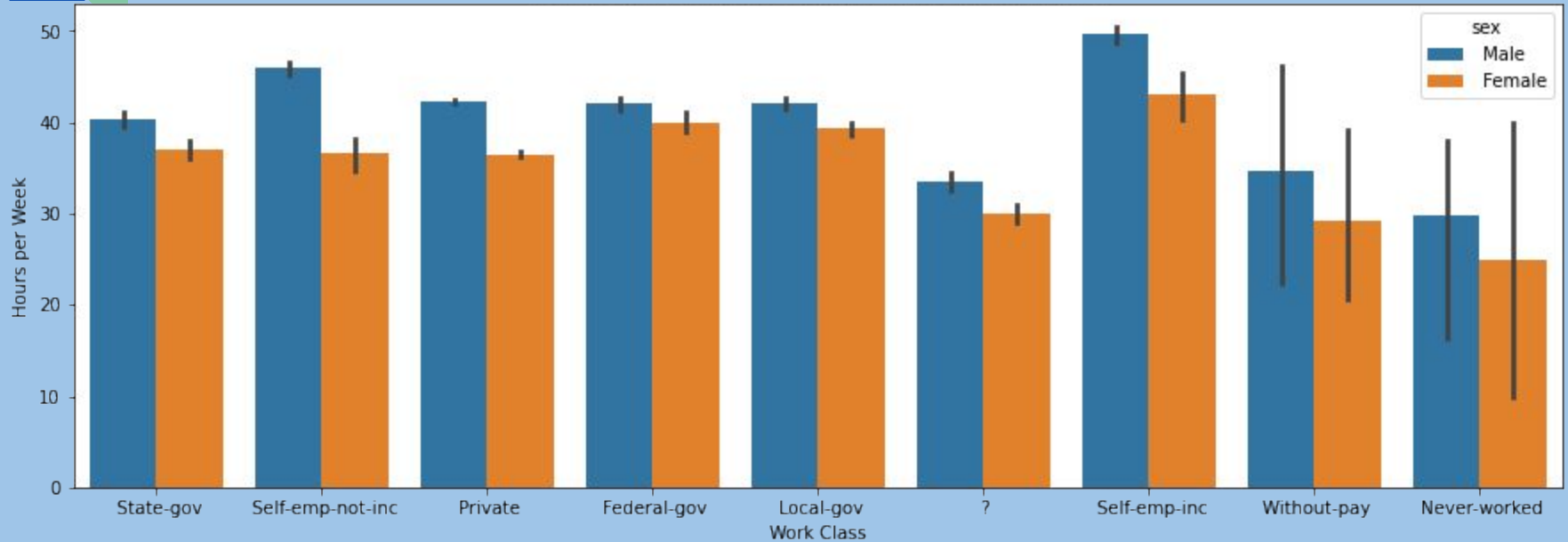
Across all categories, men work more hours than women. The previous graph showed that more hours worked lead to more pay. Based on that observation, men are expected to make more than women.

Strengths and Limitations

- Can correctly predict 89% <=50K salaries and 80% of >50K salaries
- Overall accuracy 84%
- Knowing clients' true incomes allows companies to more accurately set credit limits
- Incorrectly predicting clients' incomes could potentially lead to credit card companies either lending too much credit or miss out on lending more money to someone who has the ability to repay it

Final Recommendations

- Generally set higher limits for people with more years of education (at least 13) and of older age (32+)