

# Demographics and Income Brackets

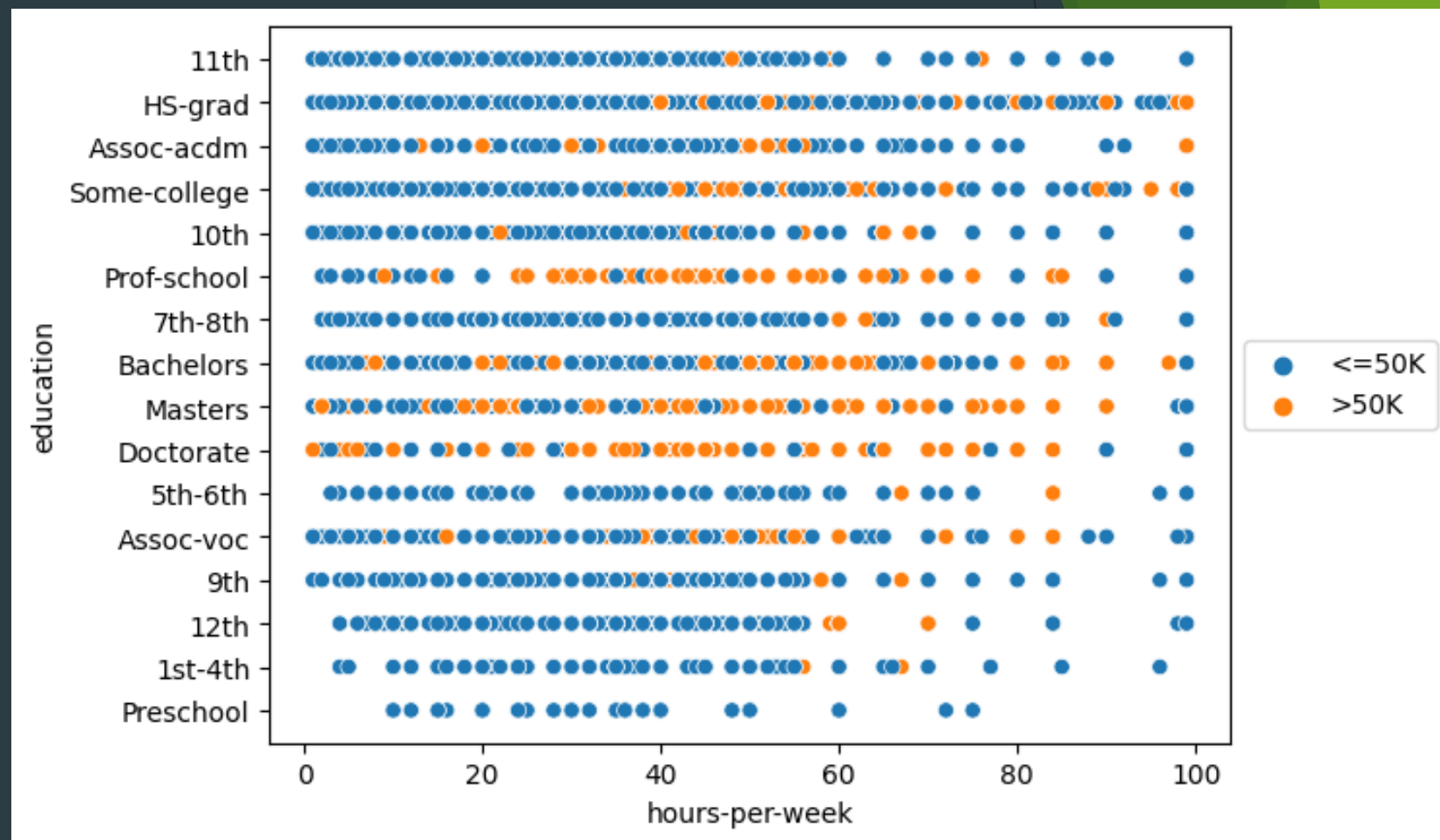
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# The Problem

- ▶ Looking to compare similar studies in other countries to better understand how various demographic properties affects socioeconomic class in the US and possible insights into work-life balance.
- ▶ What are the main features in a worker's life that affect their class in the United States?

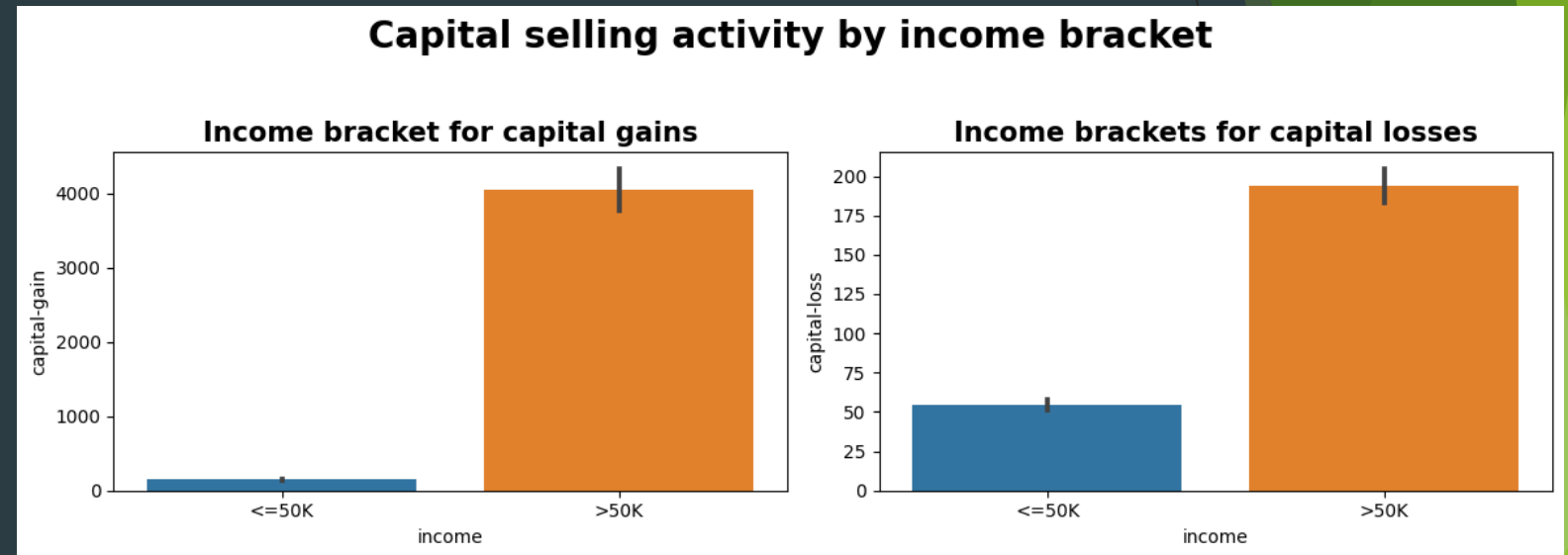
# Some Findings

- ▶ Education and hours worked in a week seemed to be big indicators on income.
- ▶ However, this plot does demonstrate that it's not a guarantee.
- ▶ Those with a bachelors, masters, or doctorate working at least 40 hours a week is likely to earn in the higher bracket.



# Some Findings

- ▶ Another finding is that with the higher bracket, there is more activity related to capital selling.
- ▶ This pays off for those in the higher bracket as shown here where even though they do experience more of the capital losses, that number is dwarfed by the capital gain they earn, furthering themselves financially.



# The Models

- ▶ I used a Logistic Regression and KNeighbors model to classify records as either earning less or equal to \$50,000 or more than \$50,000.
- ▶ Though tuned, a false positive (where a person is falsely marked as likely to earn more than \$50,000) could cause inaccuracy when using this study for reporting.
- ▶ Overall, I think using this study can help understand socioeconomic status and growth both in direct income from work as well as capital gains/losses for various firms.