

# Hypothesis Testing

(gender pay gap, payoff of advanced degree)

MIE1624 - Introduction To Data Science And Analytics

OCTOBER 12, 2020

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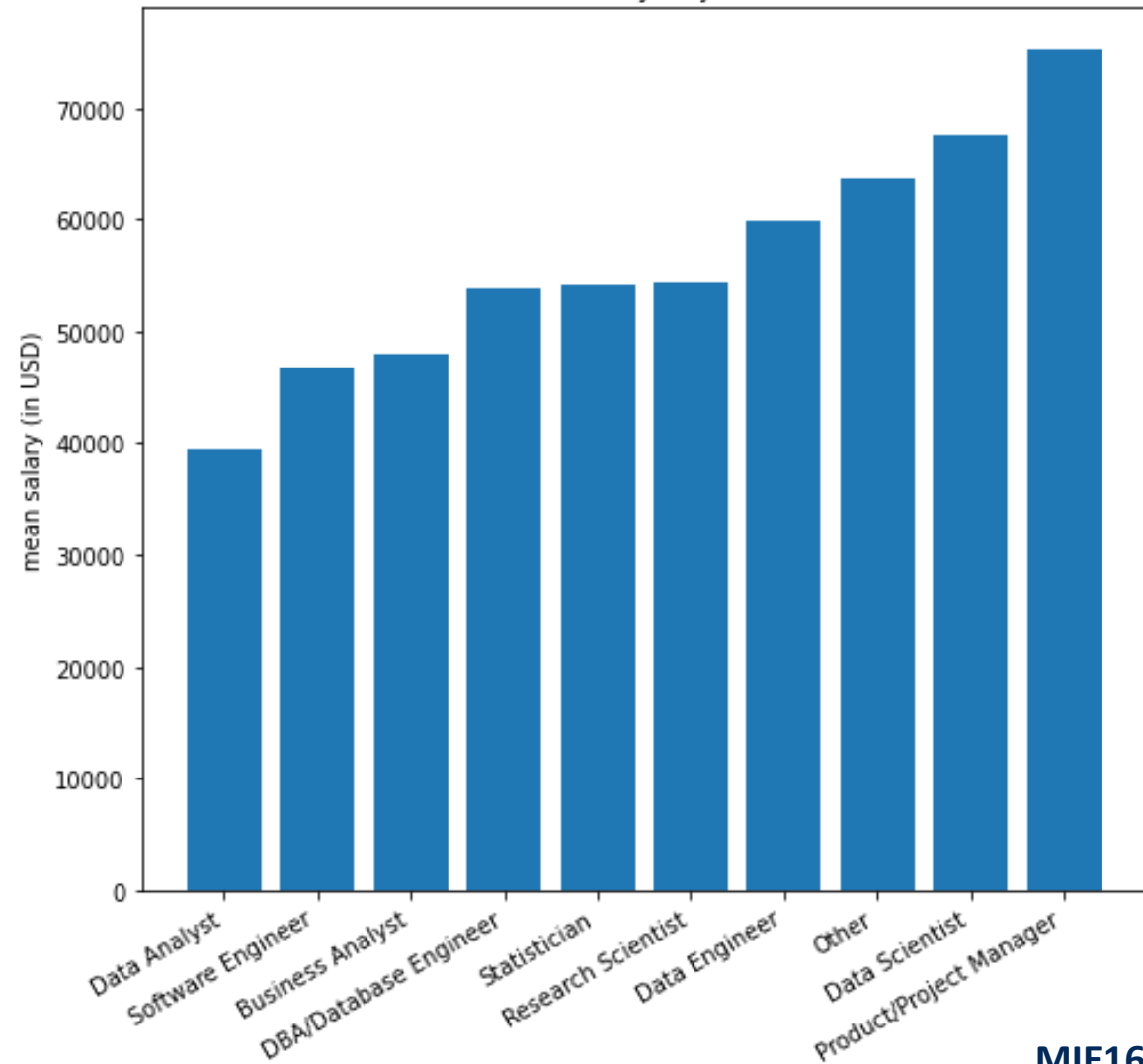
UNIVERSITY OF  
TORONTO



# EDA + VISUALIZATION

Data Scientists are paid more than Research Scientists!

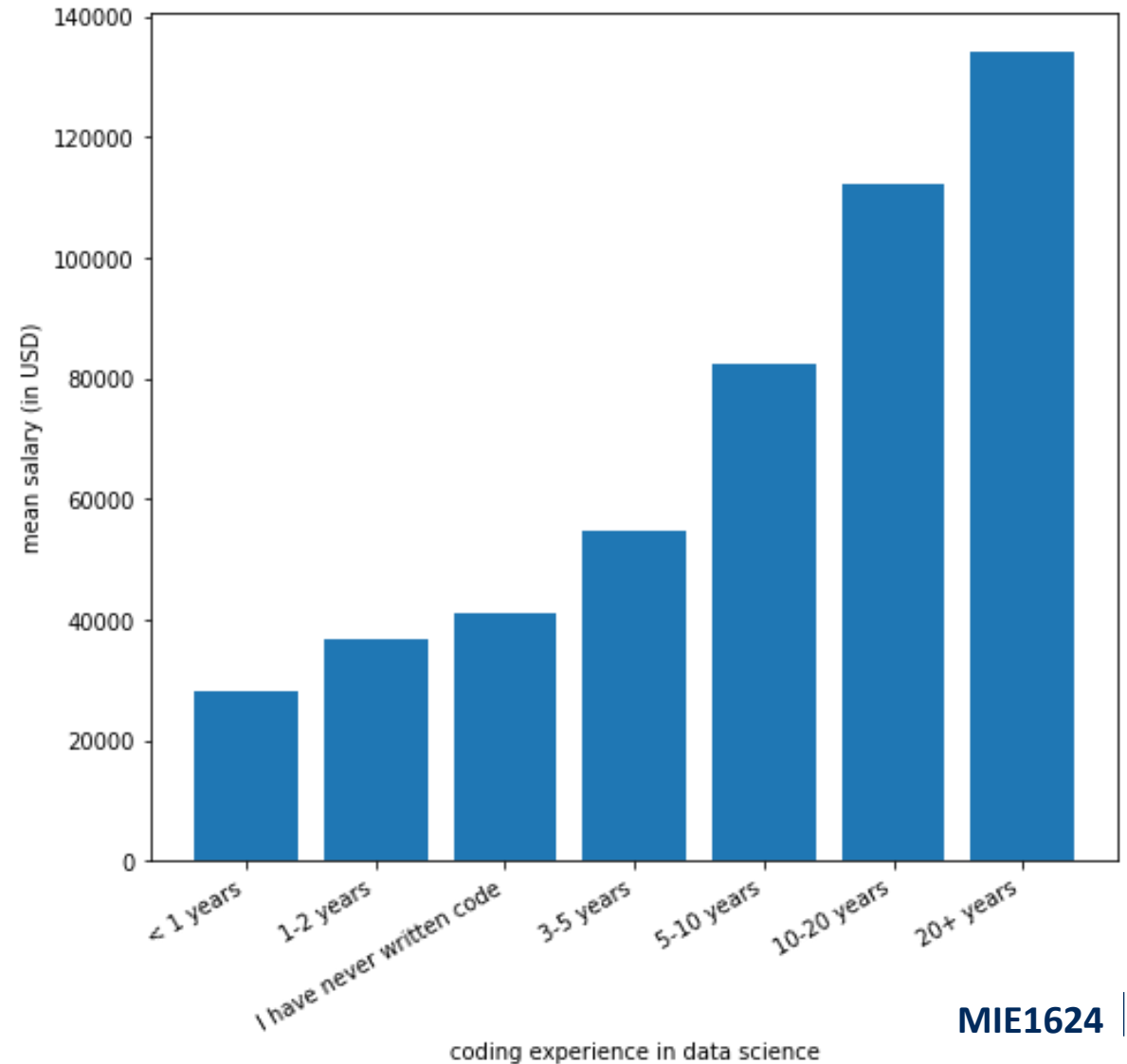
MEAN SALARY VS JOB TITLE



# EDA + VISUALIZATION

Salary increases exponentially with coding experience.

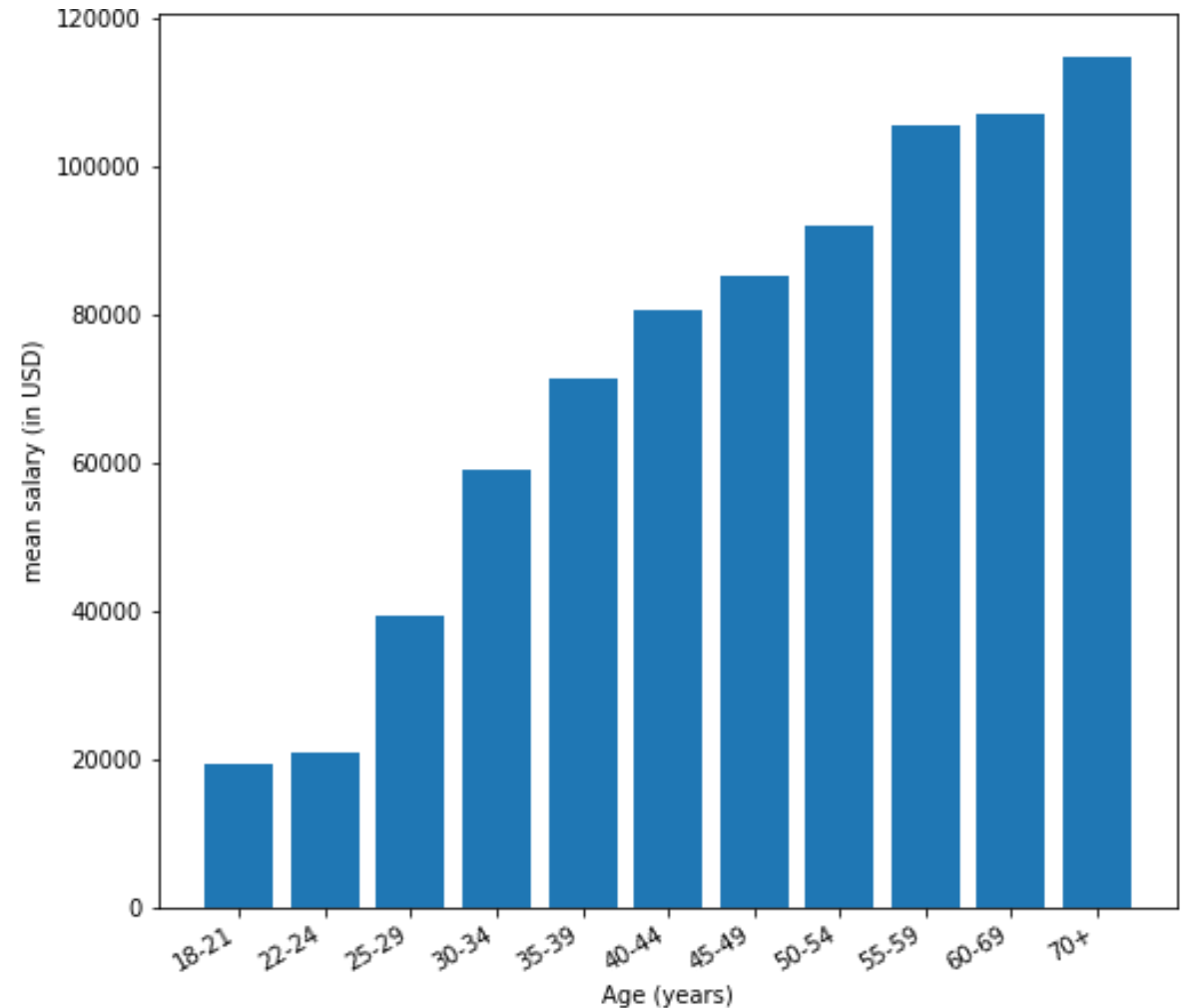
MEAN SALARY VS CODING EXPERIENCE



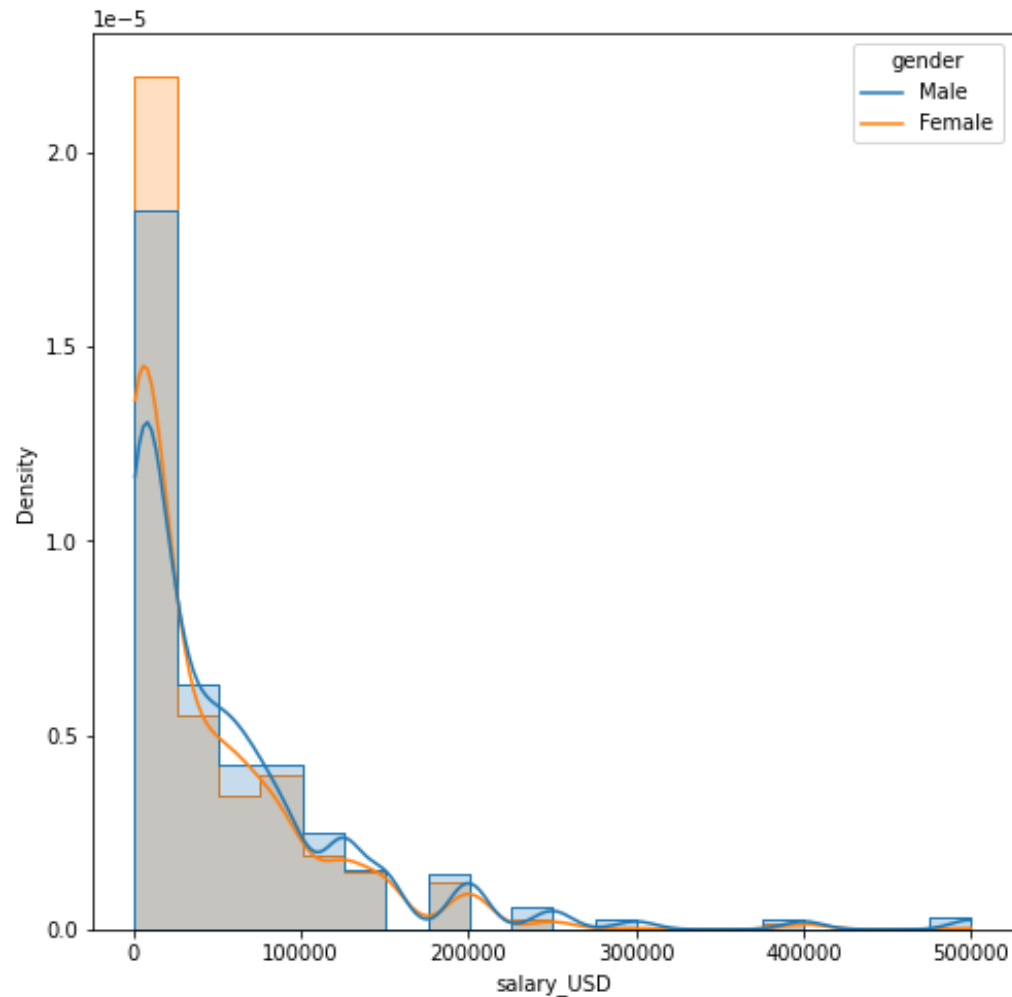
# EDA + VISUALIZATION

Salary increase with age is gradual compared to increase with coding experience.

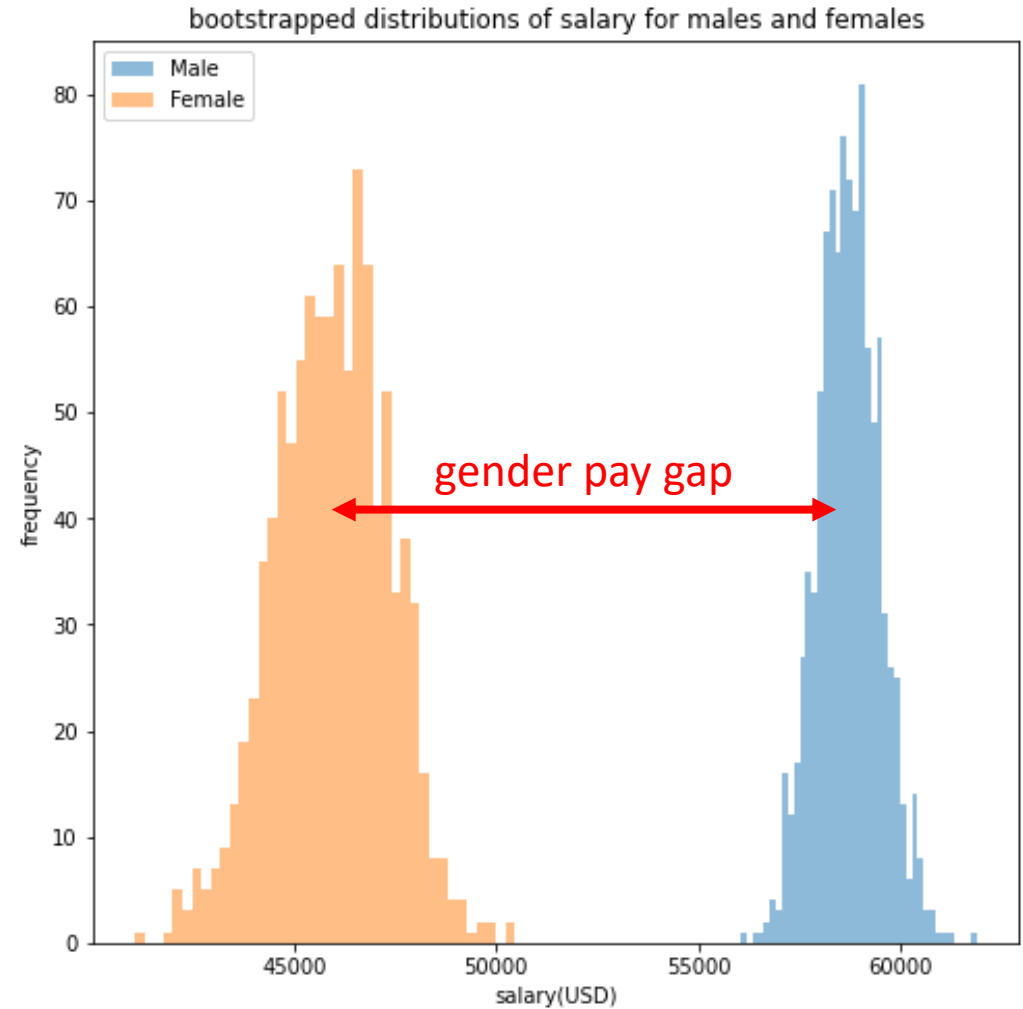
MEAN SALARY VS AGE



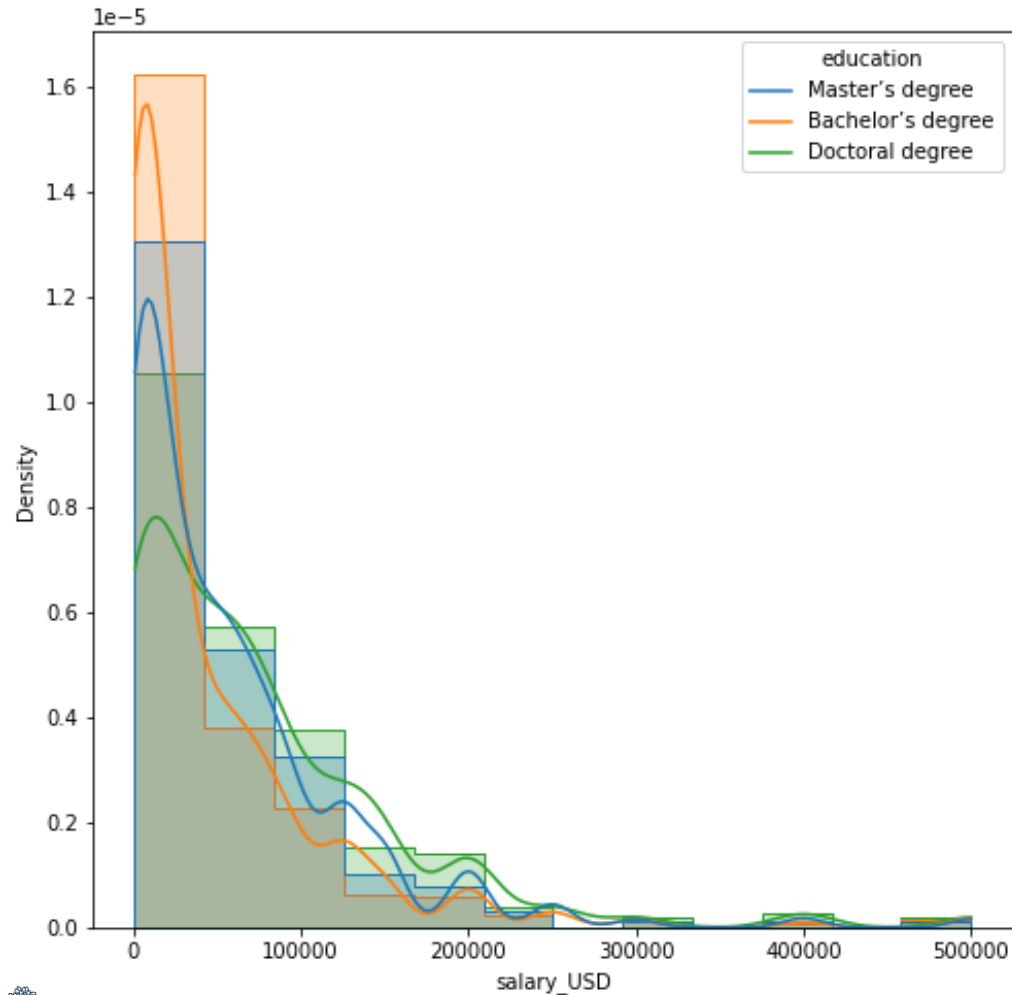
# IS MEAN SALARY OF MALE AND FEMALE DIFFERENT?



Bootstrapping  
→



# DOES ADVANCED EDUCATION PAY OFF?



Bootstrapping  
→

