

Bhavjot Khurana

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EDUCATION

Reed College

Bachelor of Arts - *Mathematics*

Some Coursework: Statistical Learning, Mathematical Statistics, Film Theory

Portland, OR

May 2023

WORK EXPERIENCE

Data Scientist

Freelance, Various Clients

Chicago, IL

August 2023–Present

- Designed and implemented A/B testing framework for Bee Kay Leasing, a real estate business, optimizing marketing outreach and increasing lead conversion by 15% using Python and SQL.
- Built predictive models for student performance at Yuno Learning, analyzing rubric data to deliver actionable insights that improved curriculum design.
- Automated financial reporting processes for a small business, reducing manual processing time by 30% through Python scripting and database optimization.

Mathematics & Statistics Tutor

Pear Deck Tutor (GoGuardian)

Remote

October 2023–March 2025

- Conducted over 600 comprehensive one-one Mathematics and Statistics tutoring sessions for students ranging from K-12 to college, covering basic to advanced topics in Algebra, Applied Math, Calculus, Probability, and Statistics
- Designed courses in Introductory Statistics and Probability for non-traditional students to guide them through topics like hypothesis testing and conditional probabilities
- Assisted students taking statistics courses with code debugging, data pre-processing, and statistical analysis in R

Research Assistant

Reed College

Portland, OR

January 2022–May 2022

- Conducted data analysis in R to uncover a \$10,000 earnings discrepancy in College Scorecard data, presenting findings to stakeholders for policy adjustments.
- Designed predictive models to estimate true median earnings, improving accuracy of institutional reporting, got featured in the Reed College magazine and presented results to the Board of Trustees

SELECTED PROJECTS

DougScore Dataset and Toolkit in R

GitHub Project

- Developed a comprehensive dataset encompassing over 550 vehicles by extracting and augmenting data from sources such as the Automobile Catalog Website and YouTube descriptions.
- Integrated large language models to supplement missing technical specifications, ensuring a robust and complete dataset.
- Designed and implemented a suite of tools in R for data exploration, including functions for searching, filtering, comparing, and visualizing vehicle data.
- Integrated OpenAI's GPT model to generate summaries and comparisons in the style of Doug DeMuro, enhancing user engagement and understanding.

Predicting Student Proficiency in Oregon Schools

Senior Thesis

Portland, OR

August 2022–May 2023

- Developed random forest models in Python to predict ELA and Math proficiency, achieving 80%+ accuracy across demographics using teacher and socioeconomic data.
- Presented 50-page analysis to faculty, highlighting key drivers of student outcomes for policy recommendations.

TECHNICAL SKILLS

Languages & Tools: Python, SQL, R

Methods: Machine Learning (Random Forests, Regression), A/B Testing, Statistical Analysis

Other: Data Visualization (Matplotlib, Seaborn), Database Management, Git, AI