

Bhavjot Khurana

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EDUCATION

Reed College

Bachelor of Arts - Mathematics and Statistics

Activities: International Student Board Coordinator

Portland, Oregon

May 2023

WORK EXPERIENCE

Data Scientist

Yuno Learning

Chicago, IL

August 2023–August 2025

- Queried and reshaped tutoring cohort data in SQL to deliver weekly trend snapshots and actionable recommendations for curriculum leads.
- Authored experiment readouts for A/B tests on content cadence and deadline expectations, applying t-tests and Cohen's d across pre-, mid-, and post-course score distributions.
- Collaborated with the technical team on conversion-tracking dashboards, contributing data hygiene feedback and pinpointing where to capture signals from website visit through tutor match.

Mathematics & Statistics Tutor

Pear Deck Tutor (GoGuardian)

Remote

October 2023–March 2025

- Delivered 600+ one-on-one math and statistics sessions for K-12 through college students, covering Algebra, Applied Math, Calculus, Probability, and Statistics.
- Designed Introductory Statistics and Probability courses for non-traditional learners, emphasizing hypothesis testing, conditional probability, and applied problem sets.
- Supported university statistics students with R-based code debugging, data preprocessing, and statistical analysis.

Private Tutor

Freelance

Chicago, IL

May 2024–Present

- Coach 7 students weekly across K-7 Math, SAT Math, and AP Calculus/Physics, tailoring lesson plans to learning goals.
- Raised a student's SAT Math score from 580 to 730 in three months and guided an AP Calculus student to accelerate a grade level.
- Designed a 200+ question SAT Math bank reinforcing Algebra, Problem Solving, and other math concepts. Check it out at [scotchegg.co](#) 

EDUCATION RESEARCH PORTFOLIO

Predicting Student Proficiency in Oregon Public Schools

Senior Thesis

Portland, OR

August 2022–May 2023

- Curated a 1,236-school ESSA dataset (10 proficiency bands per ethnicity/gender) with teacher FTE, experience, graduate FTE, participation, and poverty indicators.
- Built decision trees and tuned random forests in R using caret, randomForest, SMOTE, and 9-fold CV to predict ELA/Math proficiency cohorts, highlighting staffing metrics as top drivers.
- Delivered confusion-matrix and variable-importance readouts with >80% accuracy for most cohorts (multi-racial ~50%), outlining feature gaps for underperforming segments.

Fact-Checking the College Scorecard

Research Assistant

Portland, OR

January 2022–May 2022

- Led data preprocessing and analysis in R, identifying a \$10,000 discrepancy between Reed alumni's earnings and College Scorecard figures.
- Designed models to predict Reed's true median earnings, revealing skewed valuations by the Scorecard.
- Presented findings to the Board of Trustees and provided alternative measures for college satisfaction.

SKILLS

Languages & Tools: Python, R, SQL (MySQL/Postgres), Git, Tableau

Data Engineering: AWS Redshift analysis, Supabase (Postgres), PySpark (coursework), Docker/Kafka/BigQuery exposure via DataTalksClub Zoomcamp 

Analytics: Data cleaning, feature engineering, descriptive & inferential statistics, predictive modeling, KPI reporting

Workflow: VS Code, Jupyter, Pandas, NumPy, scikit-learn