

Bhav Singh

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EDUCATION

Reed College

Bachelor of Arts - Mathematics and Statistics

Portland, Oregon

May 2023

WORK EXPERIENCE

Founder, Data & Product Analyst

VLTG (vltg.net)

Chicago, IL

2025 – Present

- Built and shipped a free diagnostic for a high-stakes trade licensing exam, solo: a 69-question assessment scored 1 to 9, a skill-by-skill results breakdown, and an LLM “coach” summary (Claude API) that turns raw performance data into personalized next steps.
- Instrumented the full acquisition funnel with first-touch attribution and landing-page-through-sign-up event tracking, measuring channel-level conversion across direct outreach, social, and organic search; own the product lifecycle solo.
- Building a first-party dataset of learner performance and funnel behavior to analyze directly, motivated by how stale most third-party education data is.

Data Analyst

Yuno Learning (Summer Internship, then intermittent freelance)

Remote

Summer 2022 – Aug 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.

Private Tutor

Freelance

Chicago, IL

May 2024–Present

- Coach 7 students weekly across K-7 Math, SAT Math, and AP Calculus/Physics; raised one student’s SAT Math score from 580 to 730 in three months.
- Built and run scotchegg.co, a free 1,440-question SAT Math practice platform organized by topic that doubles as an acquisition funnel for my tutoring clients.

Mathematics & Statistics Tutor

Pear Deck Tutor (GoGuardian)

Remote

October 2023–March 2025

- Designed Introductory Statistics and Probability curricula for non-traditional learners; delivered 600+ one-on-one sessions (K-12 through college) across Algebra, Calculus, Probability, and Statistics.

SELECTED PROJECTS

MMLU-Pro LLM Evaluation

Independent Project

2026

- Built a reproducible Python harness to grade a language model on the MMLU-Pro reasoning benchmark via the Anthropic API, with seeded stratified sampling and parallel requests.
- Measured a +34-point accuracy lift from chain-of-thought prompting, concentrated in quantitative subjects; documented methods and honest caveats (uncertainty, balanced sampling).

Predicting Student Proficiency in Oregon Public Schools

Senior Thesis

Portland, OR

August 2022–May 2023

- Curated a 1,236-school ESSA dataset and built random forests in R (caret, randomForest, SMOTE, 9-fold CV) across demographic subgroups, evaluating with per-class balanced accuracy and F1 rather than raw accuracy.
- Found teacher staffing and experience outweighed poverty as predictors of proficiency, consistent across race and gender subgroups (variable-importance analysis).

SKILLS

Analytics & Experimentation: A/B Testing, Hypothesis Testing, Funnel/Event Instrumentation, KPI Definition, Statistical Modeling

Machine Learning & AI: Tree-based models, LLM evaluation, prompt engineering, agentic AI development (Claude Code, Cursor), LLM API integration (Anthropic Claude)

Teaching & Curriculum: Curriculum design, instructional design, technical explanation

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

Visualization: Python (matplotlib, seaborn, plotly), R (ggplot2), Tableau