Bhav Khurana

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Education

Reed College Portland, Oregon

*Bachelor of Arts - **Mathematics and Statistics*** *May 2023*

Work Experience

Founder, Data & Product Analyst Chicago, IL

VLTG (vltg.net) *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 Remote

Yuno Learning (Summer Internship, then intermittent freelance) *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 Chicago, IL

Freelance *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 Remote

Pear Deck Tutor (GoGuardian) *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 Portland, OR

Senior Thesis *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