

Pranay Varada

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Education

HARVARD UNIVERSITY

B.A. in Statistics (Data Science track) and Government, secondary in Computer Science. GPA: 3.984.

Cambridge, MA

May 2025

Technical Skills

Programming: Python, R, HTML, CSS, SQL, Java.

Web Development: pranayvarada.com (personal), geogenius.org (geography education project). Experience with Figma.

Relevant Coursework: Machine Learning, Linear Models, Data Science, Stochastic Processes, Probability

Work Experience

WORLD DATA LAB

Vienna, Austria

Data Science Intern

June 2023 – January 2024

- Developed and presented breakdowns and forecasts of market growth to major current and prospective clients such as L'Oréal and McKinsey, leveraging World Data Lab's novel data science approaches to highlight strategic business opportunities of over 6% annual growth in emerging markets.
- Built predictive models in R for future global and national consumer spending on food, beauty products, and oral care, creating opportunities for targeted market research across age and spending groups in 180 countries.
- Tackled missingness issues in leading economic data sources through linear and boosted regressions, providing reliable core indicators for market modeling up to the year 2034, thus enabling smarter business strategy.

HARVARD UNIVERSITY DEPARTMENT OF STATISTICS

Cambridge, MA

Teaching Fellow – Stat 110: Introduction to Probability

September – December 2022

- Led weekly sections and office hours to teach key concepts in probability, such as conditional independence, expected value, and distributions of random variables.
- Assisted with creating teaching materials and grading for Harvard's largest undergraduate course (~750 students).

INTERNAL REVENUE SERVICE

Remote work

Civic Digital Fellow – Data Science Intern

June – August 2022

- Improved the accuracy of automated webpage classification from 20% to 50%, furthering the IRS's mission of enhancing accessibility to taxpayers by providing them with useful metadata, using NLP libraries in Python.
- Investigated the efficiency of general and customized versions of Google's BERT language model in generating text embeddings and webpage tags, suggesting next steps to reach 20 million non-English-speaking taxpayers.

REROOT

Cambridge, MA

Co-Founder & UX Researcher

October 2021 – May 2022

- Collaborated with 5 graduate students to develop reRoot, a support platform using U.S. Census data to help members of prospective migrants figure out the optimal location for them to move to, given their desired factors.
- Finalist in the 2022 MIT IDEAS Social Innovation Challenge, receiving \$1,000 in funding.

Projects & Activities

HARVARD SPORTS ANALYSIS COLLECTIVE

Cambridge, MA

Editor in Chief

December 2023 – present

- Helming the leading collegiate sports analytics blog, with an annual readership of over 15,000.
- Worked with National Women's Soccer League club NJ/NY Gotham FC to facilitate better team strategy by developing interactive postgame reports using R Shiny.
- Used machine learning methods in Python to evaluate how offensive line skill affects quarterback pocket area on over 10,000 passing plays, in a project for the NFL's Big Data Bowl.

HARVARD OPEN DATA PROJECT

Cambridge, MA

Content Lead

May 2023 – present

- Spearheading data journalism initiatives for a 100-student team telling stories through public Harvard data.
- Running 11-week-long bootcamps teaching data science and visualization in Python to new members.