

# Prina Doshi

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## EDUCATION

### Carnegie Mellon University

Aug 2021 – May 2025

*Bachelor of Science in Information Systems; Statistics and Machine Learning*

- Grade Point Average: 4.00/4.00; Dietrich College Dean's List Recipient (Fall 2021, Spring 2022)
- Coursework: Introduction to Machine Learning, Application Design and Development, Stochastic Modeling, Data Structures, Database Design, Designing Human-Centered Software, Discrete Math, Probability Theory, Multivariate Analysis, Linear Algebra, Microeconomics, Linguistic Analysis in R, Representation and Voting Rights

### Wayzata High School

Sept 2017 – June 2021

- National Merit Finalist, Top 10 student from class of 900

## PROFICIENCIES

- **Programming languages:** Java, Python (pandas, NumPy, BeautifulSoup, matplotlib, scikit-learn, TensorFlow, PyTorch), HTML5, CSS3, C, Stata, R (ggplot2), PostgreSQL, MongoDB, JavaScript (Node.js), React, Groovy, Ruby
- **Tools:** MatLab, Linux, RStudio, AirTable, Visual Studio Code, GitHub, Excel, Gorilla, Google Data Studio, Chrome API, Storybook, Chromatic, Jenkins, Jupyter Notebook, Tableau, Figma, Docker, Vertabelo, ArcGIS
- Certified as a Microsoft Technology Associate: HTML5 Application Development Fundamentals

## EXPERIENCE

### Privacy Economics Experiments Lab—Research Assistant

May 2022 – Present

- Develop browser and email extensions to study the impact of ad-blockers and anti-tracking on user purchases
- Create scripts to capture information about user browsing habits and online purchase history without compromising on user privacy or browser speed
- Improve features including page collection and reproducibility, purchase extraction, and browsing analysis

### Optum Technology Development Program—Software Engineer Intern

Jun 2022 – Aug 2022

- Integrated in-house design system with external front-end platforms to automate visual regression testing
- Imported 30 UI components and developed infrastructure to ensure backwards compatibility of updates
- Reduced over 80% of team developer testing time each sprint by writing to the continuous integration pipeline

## PROJECTS

### YouTube Database Design

Nov 2022

- Designed database model of YouTube beginning at requirements analysis through logical and physical design
- Developed normalized physical database in PostgreSQL environment and implemented user stories using psycopg2 SQL queries, including trigger functions

### Novel Ideas Book Recommender

Nov 2021

- Designed and built book recommendation app from conception through Minimum Viable Product with Python, pandas, numpy, requests, BeautifulSoup, tkinter
- Web-scraped 83,000 observations from Goodreads, trained a user-user collaborative filtering algorithm, used predictive analytics, and incorporated graphics and user-interface
- Implemented Kth Nearest Neighbors and Polynomial Regression models from scratch as part of backend framework

### Gender Bias in Manager Ratings, Positions, and Promotability

Sept 2019 – May 2021

- Investigated relationship between manager ratings, gender bias, and promotions in dataset for large national retailer using Stata and statistical techniques (e.g., hazard models, time series analysis) at University of Minnesota
- Received AP Capstone Diploma and Scholars of Distinction awards in Mathematics and Economics by the Minnesota Department of Education for writing 30 page research paper and conducting oral defense

## ASSOCIATIONS

### Students Using Data Science For Social Good—Data Project Member

Sept 2022 – Jan 2022

- Created Tableau dashboard for local education organization to provide geographic analysis and visualize impact
- Conducted data cleaning, feature engineering, and web scraping to process and store data for future use

### Fundamentals of Programming and Computer Science (15-112) Teaching Staff

Jan 2022 – Present

- Teach weekly 30 student recitation sections on topics such as object oriented programming, recursion, and MVC framework, host office hours and small group tutoring sessions, and coach 10 students individually on term project
- Approve extensions and absences for class of 500 students as Division Lead of Student Management

### Women in Information Systems—Mentor

Aug 2021 – Present