

# ADVIKA SRIVASTAVA

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## EDUCATION

Princeton University, Princeton NJ

Expected May 2024

B.S.E. in Computer Science, Minor in Finance (GPA - 3.8)

- **Courses:** Full-Stack Programming, Machine Learning, Computer Vision, Algorithms & Data Structures, Programming Systems, Computer System Design, Fintech, Product Manager workshop, OOP
- **Extracurriculars:** Co-Director, Tigers In Product (sub-team of the Princeton Entrepreneurship Club); Core Team, Google Developer's Student Club; Princeton Women in Computer Science; Society of Women Engineers

## INTERNSHIPS

Software Development Engineer Intern, DealShare

Jun 2023 - Aug 2023

Social e-commerce unicorn with over 20 million users worldwide

- Built a semantic search tool for Indian languages using NLP, with CTR of 23% and serving 400,000 queries/day
- Increased recall of search by 10 times using a multilingual Sentence Transformer model and fine-tuning it on a custom dataset, which I created by analysing customer search queries and their interactions with items using SQL
- Developed Hindi audio summarisation, topic modeling, and keyword extraction systems using LLMs, Term Frequency method, and LDA that automate categorization of customer calls and reduce call analysis time by 75%
- Built a code commenting tool using GPT-3.5 API for over 10 software teams to improve cross-team code reusability

Machine Learning Intern, Evtex (Recycletek)

May 2022 - Aug 2022

Early-stage environmental startup with revolutionary AI recycling technology

- Performed image processing and built a similarity CNN for recyclables with 98% accuracy using OpenCV and Keras
- Built a business-critical recycling classifier that automates classification by using k-nearest neighbors and calculating image embeddings using specific layers of the trained similarity CNN, with 96% accuracy
- Refined dataset robustness by identifying classes with limited images through unlabelled image classification

Software Engineering Intern, Renaissance Entrepreneurship Center

Aug 2021 - Sep 2021

California-based non-profit which has helped over 20,000 small businesses scale-up

- Built a Python application using Facebook Marketing and Google BigQuery APIs to streamline the processing and loading of Facebook marketing data onto Google Cloud, leading to cost reduction of \$20,000 per year for client
- Spearheaded a team of 5 interns in the production data validation process for software testing in SQL

## ADDITIONAL EXPERIENCE

Quantitative Research Intern, Princeton University China Center

Sep 2022 - Dec 2022

- Identified underlying reasons and patterns in women's academic drop-out rates by implementing predictive models using a range of techniques, including linear regressions, support vector machines (SVMs), and neural networks

Undergraduate Course Assistant, Princeton University CS Department

Feb 2021 - May 2022

- Worked with course instructors and other UCAs to grade weekly programming projects and provide programming skills feedback in Data Structures & Algorithms and Intro to Programming courses (each 100 students)

## SELECTED PROJECTS

**DesignMyDorm:** Interactive web app with drag-and-drop functionality, automatic scaling, and seamless integration with the University's sign-on system. Users can design personalized dorm room layouts, securely log in, export as PNG, and save and share their designs within the system. Used PostgreSQL, SQLAlchemy, Python, Flask, JavaScript, HTML, CSS. Worked in a group of 4. Led the backend development of the application, while contributing to the front and middle ends.

**Course Registrar:** A dynamic website showcasing a comprehensive list of courses with individual pages containing detailed information based on real-time search criteria. Implemented using HTML, Python, Bootstrap, Flask, jQuery, and SQL.

**Resizer:** Java application for content-aware image resizing using seam carving. Top 15 of 250 in code performance contest.

## SKILLS

**Languages:** Java, Python, C, C++, R, SQL, HTML/CSS, JavaScript, GoLang, Assembly

**Tools:** AWS, PyQt, Flask, Bootstrap, AJAX, Git, jQuery, Linux, Jinja2, SQL Alchemy, PostgreSQL, NLTK, Scipy, Pandas, NumPy,