

# Aarushi Banerjee

Machine Learning Engineer | Fullstack Developer  
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## Websites

### Portfolio:

<https://ab3000.github.io/>

### LinkedIn:

<https://www.linkedin.com/in/ab99/>

## Education

**Cornell Tech** · Spring 2022  
MEng in Computer Science

**Tracks:** Deep Learning, Mixed Reality

**Purdue University** · Fall 2020  
B.S. in Computer Science  
Minor: Mathematics

**Tracks:** Machine Learning, Software Engineering  
**Honors:** Dean's List, Semester Honors

**Involvement:** Teaching Assistant (Spring 2019), Research Assistant (Fall 2019 - Spring 2020)

## Skills

### Machine Learning:

**Languages + Libraries:** Python (pytorch, tensorflow, keras, cuda), GPT

**Algorithms + models:** GenAI, LLMs, Computer Vision, neural networks (CNNs, DNNs), GANs, transformers, k-means clustering, SGD, BGD, supervised learning, unsupervised learning

**Data Pipeline:** Data analysis (statistical), data generation, data cleaning, pipeline design.

### Programming:

Java, python, C/C++, C#, R: RStudio, SQL, bash scripting, ARM Assembly, Scala

### Web Development:

**Frontend:** React (+ ejs / jsx), Angular, HTML, CSS, Javascript

**Backend / DevOps:** Java, python / flask, Google Cloud Platform, AWS, Node/Express.js.

**DataBase:** SQL, MongoDB

### UX/UI + Modeling:

Figma, Canva, Autodesk Maya, Adobe Animate, Adobe Photoshop, Adobe Illustrate, Inkscape, Unity, iMovie

## Professional Experience

### MACHINE LEARNING ENGINEER

Rose AI · Fall 2023 - Present

- Independently designed and programmed the ML architecture (LLM models) in an upcoming product to visualize financial data.
- Generated data to finetune our existing models for better performance.

### FOUNDING NLP / BACKEND ENGINEER (TMP)

Abstractive Health · Summer 2023

- Created and tested ML / NLP deployment pipeline architectures in AWS Lambda for sentence summarization and classification.
- Researched and implemented the best-fitting architecture and tools for linting and unit-testing the codebase.

### FULLSTACK / DEVOPS SOFTWARE ENGINEER

Rightfoot · Summer 2022 - Summer 2023

- Fullstack development and devops for loan payment APIs.
- Performed auditing (SOC2) for certification and obtaining clients.
- Performed on-call rotations to conduct releases and resolve customer payment issues.

### SOFTWARE ENGINEER (TMP)

Cisco · Summer 2021

- Contributed to App Hosting, bug-fixing, and cross-compatibility changes in the Catalyst 9400 team.

### SOFTWARE ENGINEER I (TMP)

Honeywell · Spring 2021

- Manipulated conveyor panels in InControlWare to match Autocad specifications.
- Designed and leveraged SQL scripts to efficiently manipulate the lengths, positions, and angles of panels in bulk.

### MACHINE LEARNING INTERN

UEGroup · Fall 2019 - Summer 2020

- Single-handedly created a standalone web application from scratch to perform automated chapter-marking on videos for researchers.
- Designed a NLP algorithm to chapter videos based on sentiment or common topics.

### SOFTWARE + MACHINE LEARNING INTERN

Pyxeda AI · Summer 2019

- Crowdsourced data, designed data science projects for AI + Machine Learning customers in Java, Python, and JavaScript + HTML.
- Contributed to front-end development and design.
- Successfully introduced and developed a marketing partnership between Pyxeda and Digital Media Academy.

### CURRICULUM DEVELOPER / INSTRUCTOR

Digital Media Academy · Summer 2016 - Summer 2019

- Designed and taught STEM curriculum for students aged 5-18 in robotics, programming, machine learning, and game development.