

Amishi Gupta

amishi00.github.io | ag2424@cornell.edu | linkedin.com/in/amishigupta | Durham, NC

EDUCATION

Cornell University

Ithaca, NY

B.S. in Computer Science with a minor in Artificial Intelligence & Business; GPA: 3.7

May 2027

Relevant Courses: Machine Learning, Analysis of Algorithms, Introduction to iOS development, Discrete Mathematics, Data Structures & Functional Programming, Object-Oriented Programming & Data Structures, Intro to Entrepreneurship, Probability & Statistics

NCSSM (High School): Intro to Robotics, Foundations in Data Science, Computer Vision, Graph Theory, Differential Equations

EXPERIENCES

Amazon

June 2025 - Aug 2025

Software Development Intern

Seattle, WA

- Designed and developed a full-stack Console to provide users an end-to-end solution for querying and editing report data based on authorized user roles, streamlining their daily tasks.
- Designed a 2PR workflow to edit data using RESTful APIs, AWS Lambda, SNS, DynamoDB, and OpenSearch. Created front-end using Katal UI, AWS S3, CloudFront, and Route53, serving data through API Gateway.

Echo3D

June 2024 - Aug 2024

Software Development Intern

New York, NY

- Used SwiftUI, Echo3D's SDK, and Xcode to create a demo iOS AR/VR application for trying on 3D dresses using a real-time camera. Designed and built features on website to make 3D asset management experience more seamless using HTML, CSS, and JavaScript, leading to 23% more engagement on the website.

MIT Beaver Works: Medlytics Program

July 2023 - Aug 2023

Student, DyslexAI developer

Cambridge, MA

- Gained exposure to Data Science libraries such as Numpy, Pandas, Matplotlib, Seaborn, SciKit Learn, and Tensorflow. Implemented these libraries to learn and train ML models such as SVM, Decision Trees, KNN, CNN, VCG16, etc. in order to classify images, text, and audio.
- Designed and developed a ML model using VCG16 in order to detect Dyslexia in user-inputted handwriting images for final project. Earned the Best Team Initiative award and received a validation accuracy of 89.4%.

EXTRACURRICULAR ACTIVITIES

Cornell Nexus Project Team

Jan 2024 - Present

Software Subteam Member

Ithaca, NY

- Developed an object detection and avoidance model for the robot in Python using YOLOv8 and DepthAI tested on real-time images from RGB-D camera connected to Raspberry pi. Using ROS (Robot Operating System) and RViz to simulate the robot's path planning and GPS tracking in order to efficiently collect microplastics.

Cornell Tech Consulting

Sep 2024 - Present

Technical Analyst

Ithaca, NY

- Working with *Nails by Mariel* to provide strategy assistance & marketing strategies for growing business. Using HTML, CSS, JavaScript, and Figma to design and build website with scheduling interface for the client from scratch. Learning different casing techniques such as Market Sizing, Market Entry, Profit Optimization, etc.

Cornell Data Journal

Jan 2024 - May 2024

Technical Researcher

Ithaca, NY

- Conducted sentiment analysis on Cornell professor reviews using the GPT-4 API, implementing NLP techniques to evaluate general sentiment and trends across departments. Developed a data pipeline leveraging web scraping tools (BeautifulSoup and Selenium) to collect and preprocess reviews on RateMyProfessor and CUREviews.

PROJECTS

- SeniorSurf - HackMIT:** Designed and developed a chrome extension to autonomously help elderly navigate websites using Python, HTML, CSS, and Javascript, Flask, DOM (Document Object Model), and GeminiAPI. Integrated AI chatbot to generate a list of actions needed to complete a task based on user input and used vector embeddings to find and highlight the closest HTML components needed to be clicked to complete the task. **(Sep 2024)**
- CULearn - Cornell Appdev Hack Challenge:** Developed a full-functioning iOS application for finding tutors & tutees on Cornell's campus for personalized tutoring using SwiftUI, XCode, JavaScript, Flask, and Figma. Collaborated with UX designers and backend developers. **Won 'Most Creative' out of 30+ teams. (April 2024)**
- Mindful Minute - UniHacks Hackathon:** Used NaturalLanguageToolkit (NLTK) package to design and implement an NLP program that diagnosed patients with either depression or bipolar-disorder depending upon their responses to a written survey. **Won 1st Place out of 20+ teams in Mental Health Category. (March 2023)**

SKILLS & ACTIVITIES

Tech Stack: Java, Python, Swift, SQL, OCaml, HTML, Mathematica, JavaScript, CSS, XCode, MATLAB, Github.

Libraries: SwiftUI, UIKit, Pandas, NumPy, SkLearn, Tensorflow, Keras, PyTorch, Matplotlib, Flask, JUnit.

Organizations: Kappa Theta Pi (Tech New Member Educator), Cornell Society of Women Engineers (Fundraising Committee), Cornell Nazaqat Dance Club (Treasurer), Cornell Calculus (Math 1910) AEW Teaching Assistant, NCSSM Natyam Dance Captain, RESTEM initiative (60+ hours of community service), NCSSM Intro to Robotics Teaching Assistant, NCSSM Attaché (Raised over \$50,000 for renovations and grants), UNC Li Lab Student Researcher