

NISHA RAMANNA

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EDUCATION

New York University, New York, NY

August 2020 – Present

Master of Science, Computer Science (Expected May 2025)

Artificial Intelligence/Machine Learning Concentration | Overall GPA: 3.89

Bachelor of Science, Computer Science (May 2024)

Overall GPA: 3.83

SKILLS

Python, C, C++, JavaScript, Java, PyTorch, Keras, TensorFlow, Scikit-Learn, Pandas, NumPy, SQL (MySQL and PostgreSQL), Node.js, Flask, React, HTML, CSS, Bootstrap

EXPERIENCE

Incoming Data Engineering Intern, **Peacock**, New York, NY

Expected September 2024 – May 2025

Software Engineering Intern, **John Deere**, Chicago, IL

May 2024 – Present

- Leveraged **Power BI** for data visualization, supporting data-driven decision-making processes in the ML & AI organization
- Developed task management software using **Microsoft Power Platform**, resulting in **annual savings of \$80,000**
- Advised clients on how to utilize and implement AI & ML technologies to meet their needs

Machine Learning Researcher, **New York University**, New York, NY

August 2023 – May 2024

- Formulated a machine learning algorithm for semantic analysis using TensorFlow, achieving an **accuracy of 88%**
- Authored and secured acceptance of a **research paper at ASEE's 2024 Conference**, enhancing the visibility of the research

Software Engineering Intern, **Humana**, Louisville, KY

May 2023 – December 2023

- Engineered an automated security scan application in **JavaScript/Node.js**, **reducing annual costs by \$87,000-\$162,000**
- Enhanced app performance by integrating Microsoft Azure, creating a scalable infrastructure and improving response times
- Established a cloud-based Postgres database using Docker, improving data access efficiency by optimizing storage structures
- **Led a team of 3** in implementing CI/CD and agile practices, streamlining the software development lifecycle

Head of Inclusion, Diversity, Belonging and Equity, **NYU General Engineering Department**, New York, NY

April 2023 – Present

- Spearheaded the creation and deployment of a new IDBE curriculum, **educating ~600 NYU freshmen** annually on the topic
- Design and conduct IDBE training for **120+ faculty and teaching assistants**, enhancing inclusivity across the department

Teaching Assistant, **NYU General Engineering Department**, New York, NY

August 2022 – Present

- Review and debug students' code; provide constructive feedback to improve programming and troubleshooting skills
- Guide students through implementing software and hardware integration tasks, improving project quality and technical rigor

PROJECTS

Deforestation Detection

March 2024 – May 2024

- Developed a machine learning model to detect deforestation, **mining data** from Google Earth Engine for satellite images
- Implemented a **K-Means clustering** algorithm to identify deforestation patterns

MediConnect

February 2024 – May 2024

- Constructed a medical record management web application, using **HTML, CSS, Python, Flask, and SQL**
- Implemented a robust **SQL** database using **Google Cloud Platform and Google Storage** for efficiency & stability
- Created a chat system and scheduling feature, improving communication between patients and healthcare providers

Borough Books

December 2023

- Programmed a **React**-based web app that fosters community engagement in NYC, **winning "Best NYC Hack"** at HackNYU
- Integrated **JavaScript's Leaflet** library to allow users to mark significant spots, enhancing local cultural interaction
- Enhanced user security by implementing **Firebase** for authentication, boosting user trust with reliable login mechanisms

Ask Dibby

September 2023 – December 2023

- Constructed a deep learning chatbot using TensorFlow and Keras to assist NYU students with printer troubleshooting, **winning first place** at NYU's semester long Hack Dibner competition
- Designed system architecture to integrate chatbot with NYU's existing software, helping staff track and resolve printer issues in real time and improving campus IT support systems

ACTIVITIES

President, **Association for Computing Machinery for Women**

August 2022 – Present

- Increased membership by **60%** through coordinating chapter's event management, marketing, and finances
- Led workshops on HTML, Bootstrap, and Data Structures to **60+ students**, fostering learning and collaboration
- Organized and mediated panels with industry professionals to provide insights on career development

Media Lead & Electronics Team Member, **NYU Motorsports**

August 2022 – Present

- Formulated vehicle's real-time **data and analytics suite** by developing dashboard software with **PyGame and Python**
- Developed and maintain a cloud-based **data analytics application** using **Heroku, Digital Ocean, Docker, and Grafana**

AWARDS

Winner of NYU's Hack Dibner Competition; Winner of "Best NYC Hack" at HackNYU; Awarded NYU's General Engineering Inclusive Excellence Award; University Honors Scholar; Dean's List Recipient