

NISHA RAMANNA

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EDUCATION

New York University, New York, NY

August 2020 – Present

Master of Science, Computer Science (Expected May 2025)

Overall GPA: 3.89 | Artificial Intelligence/Machine Learning Concentration

Bachelor of Science, Computer Science (May 2024)

Overall GPA: 3.83 (Cum Laude)

SKILLS

Languages: Python, C, C++, JavaScript, Java, HTML, CSS

Machine Learning: PyTorch, Keras, TensorFlow, Scikit-Learn, Pandas, NumPy

Frameworks: Flask, React, Node.js, Django

Databases: SQL (MySQL and PostgreSQL), NoSQL (MongoDB)

Cloud & DevOps Tools: Docker, Google Cloud Platform, Microsoft Azure, Apache Airflow

Data Processing & Visualization: Apache Spark, Power BI

EXPERIENCE

Data Engineering Intern, Peacock, New York, NY

September 2024 – Present

- Streamlined data processing by automating 15+ workflows using **Apache Airflow**, reducing manual intervention
- Optimized efficiency of data pipelines by optimizing SQL queries in **BigQuery**, leading to faster decision-making

Software Engineering Intern, John Deere, Chicago, IL

May – August 2024

- Enhanced data-driven decision-making processes in the ML & AI organization by creating interactive **Power BI** dashboards
- Saved **\$80,000 annually** by automating workflows for 300+ employees using Microsoft Power Platform
- Accelerated project efficiency by advising clients on AI & ML implementation and delivering tailored solutions

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

August 2023 – May 2024

- Achieved **88% accuracy** in semantic analysis using a TensorFlow-based machine learning model, boosting NLP capabilities
- Increased research visibility by **publishing and presenting findings** at ASEE's 2024 conference

Software Engineering Intern, Humana, Louisville, KY

May 2023 – December 2023

- Cut costs by **\$162,000 annually** by developing an automated security scanning application using **JavaScript and Node.js**
- Strengthened app scalability and reduced response times by **18%** through deploying cloud infrastructure on **Microsoft Azure**
- Led a team of three to implement CI/CD pipelines and agile practices, reducing software deployment time by **15%**

Teaching Assistant & Head of IDBE, NYU General Engineering Department, New York, NY

August 2022 – Present

- Designed and deployed a new curriculum to educate **600+ students** annually on inclusion, diversity, belonging, and equity
- Improved department inclusivity by designing and conducting IDBE training for **120+ faculty and teaching assistants**
- Enhanced students' programming and troubleshooting skills by reviewing and debugging code, providing targeted feedback

PROJECTS

[Deforestation Detection](#) | Python, Flask, MongoDB, Docker, Apache Spark

March 2024 – May 2024

- Built a platform to process real-time satellite data and detect deforestation using a machine learning model
- Accelerated data processing speeds by integrating Spark and optimizing data storage with MongoDB for improved scalability

[MediConnect](#) | Python, Flask, PostgreSQL, Google Cloud Platform, HTML, CSS

February 2024 – May 2024

- Engineered a medical record app with integrated chat and scheduling features to enhance patient-provider communication
- Ensured secure, scalable storage of medical records by using an encrypted SQL database, hosted on Google Cloud Platform

[Borough Books](#) | JavaScript, React, MongoDB, Firebase, Leaflet

December 2023

- Created an award-winning React app which enables locals to create historical markers, promoting cultural preservation
- Ensured secure authentication and data management by implementing Firebase, allowing only authorized users to contribute

[Ask Dibby](#) | TensorFlow, Keras

September 2023 – December 2023

- Engineered a chatbot with TensorFlow and Keras to assist students with printer troubleshooting, winning NYU's Hack Dibner
- Boosted NYU IT's efficiency by designing a system architecture that streamlined tracking and resolution of printer issues

ACTIVITIES

President, Association for Computing Machinery for Women

August 2022 – Present

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

Lead Software Engineer, NYU Motorsports

August 2022 – May 2024

- Improved decision-making and competition performance by building a real-time dashboard software using Python
- Developed and deployed a cloud-based analytics suite to process and visualize data using Python for enhanced monitoring

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