

VAISH GAJARAJ

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RELEVANT SKILLS

Over two years of experience in computer and data science with domain knowledge and experience in: Machine learning, data-driven statistical modeling, algorithm development, feature extraction and analysis, supervised learning, and data mining. Skilled in Python, SQL, R, MATLAB, Java and Microsoft Office Suite. Experienced in the extraction, transformation, and loading of large data sets.

EDUCATION

New York University, College of Arts and Sciences, New York, NY

May 2021

Bachelor of Science, Mathematics and Computer Science

GPA: 3.778

WORK EXPERIENCE

Undergraduate Researcher, **NYU Courant**, Manhattan, NY

11/18- Present

- Awarded grant from the Dean's Undergraduate Research Fund to research artificial intelligence
- Researching mathematics of computer vision using information theory and machine learning statistics

Summer Intern, **Princeton Plasma Physics Laboratory**, Princeton, NJ

6/18-8/18

- Coded machine learning models to optimize plasma stability in NSTX-U
- Developed neural network that reduced computational time for a current profile prediction from ~30 minutes to 120 microseconds at an accuracy of 98.1%
- Tools and processes implemented to scan databases for missing and outlier values for future model optimization

Research Intern, **Rutgers University**, New Brunswick, NJ

1/17-5/18

- Researched novel optimization methods using differential equations and measure theory
- Learned fundamentals of proof writing and literature surveying

Summer Intern, **Bakto Flavors**, New Brunswick, NJ

6/16-8/16

- Cataloged over 10,000 flavor profiles using SQL and Excel
- Used regression analysis and statistical tools in R and Python to assess the relationship between amino acids and honey

LEADERSHIP ACTIVITIES

Secretary, **Mathematics Society of NYU**

9/18 – Present

- Manage club communications with students and prospective guest speakers
- Collaborate with officers to organize meetings

Community Service Coordinator, **Weinstein Residence Hall NYU**

9/18 – Present

- Lead community service initiatives for hall student council
- Collected over five dozen meals and constructed over 200 hygiene kits for the homeless
- Over 103 coats collected for donation to shelters