

Saksham Gupta

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Education

Rutgers University, Honors College

BS Computer Science | BS Data Science | Minor: Statistics

New Brunswick, NJ

Graduation Date: May 2026

Awards: Deans List, Dean's List Scholar, HC Scholar, Scarlet Program, Founding Member at DFA –Rutgers Chapter.

Relevant Coursework: Discrete Structures, Data Structures, Regression Methods, Bayesian Data Analytics, Statistical Learning, Statistical Inference, Data 101, Computer Architecture, Statistics for Research, Brain Mind and Behavior.

Work Experience

TVD Associates

Data Science Extern

New Brunswick, NJ

Jan 2024 – Present

- Expertly analyzed engagement datasets with advanced statistical tools, adeptly developing an innovative scoring system to quantify nonprofit interactions with TVD Associates accurately, showcasing analytical capabilities.
- Efficiently conducted targeted research on partner engagement, crafting a comprehensive metrics rubric for measuring strategy effectiveness and enhancing engagement approaches, demonstrating strategic acumen.
- Proactively collaborated in a dynamic, multidisciplinary team to ideate and implement data-driven solutions, fostering significant improvements in engagement outcomes through strategic insights and collaborative teamwork.

Computer Science Department, Rutgers University

Teaching Assistant

New Brunswick, NJ

Sep 2023 – Dec 2023

- Facilitated engaging recitations and lab sessions for two classes of 50 students, fostering a comprehensive understanding of technical subjects such as JavaScript, HTML, CSS, and databases among students.
- Offered guidance during Lab Support hours and office hour sessions to assist students in overcoming coding challenges and implementing debugging techniques, significantly improving their programming skills.
- Executed precise grading of exams, adhering to academic standards and maintaining a controlled testing environment; upheld fairness while proctoring exams, guaranteeing integrity and authenticity of results.

Project Experience

RUChat

Team Lead – Honors College Innovation Lab Project

New Brunswick, NJ

Jan 2024 – Present

- Engineered a chatbot solution for Rutgers University leveraging Python, NLP, and TensorFlow, enabling seamless interaction with students for inquiries ranging from academic course questions to campus activities and events.
- Implemented dialogue management techniques to ensure the chatbot's ability to handle diverse conversational scenarios effectively with chat backtracking and context awareness, enhancing user experience and satisfaction.

Sentiment Analysis

Solo Project

New Brunswick, NJ

Nov 2023 – Jan 2024

- Developed a sentiment analysis model in Python, utilizing NLP and libraries like NLTK and TensorFlow, to accurately interpret and categorize emotions from textual data, enhancing customer feedback analysis.
- Applying machine learning techniques with Scikit-learn and Pandas, to process and analyze large datasets.

OPAL

Developed a New Programming Language in C++

New Brunswick, NJ

Sep 2023 – Nov 2023

- Developed algorithms for Lexer of a new programming language, significantly reducing tokenization time.
- Implemented an interpreter for Opal, contributing to an increase in language functionality and usability.

Leadership Experience

Honors College – Rutgers University

HC Scholar Mentor

New Brunswick, NJ

Sep 2023 – Present

- Mentored first-year Honors College students in the transition to college life and academic success at Rutgers.
- Guided and supported mentees in developing time management plans improving their academic performance.
- Encouraged and supported the mentees to be involved in the Rutgers Honors College community on campus.

Skills and Interests

Skills: Python, Java, C, C++, R, JavaScript, MySQL | **Libraries & Framework:** SkLearn, TensorFlow, Pandas, React

Interests: Astronomy, Billiards, Chess | **Languages:** English(Fluent), Hindi(Fluent), French(Professional Fluency)