Akash Dubey

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As a passionate Computer Science, Mathematics, and Quantitative Economics student at the Rutgers University Honors College, I am eager to apply my strong foundation in data analysis, programming, and problem-solving to real-world data science challenges. My experience in statistical analysis, machine learning, and project management equips me to contribute effectively to data-driven projects.

Education

School of Arts and Science, Rutgers University Honors College, New Brunswick, NJ
Graduate Anticipated (Sept. 2024 -May 2028)
GPA: 3.95 • Computer Science and Mathematics

Experience

Rutgers Economics Lab Research Director, formerly Team Lead, September 2024 - Present

- *In charge of sourcing organizations, advising research, and creating scope of work for three research teams*
- *Led a team of 5 experienced student researchers to create a report for the NJDCA examining the impact of their spending*
- *Analyzed NJ Clean Energy Programs, EV incentives*
- *Synthesized 20+ years of historical data from various sources to extract patterns and create projections of economic funding variables*
- *Researched and created visualizations for the Rutgers submission to the Federal Reserve's College FED Challenge*

Founding Software Engineer for Samaritan Scout, Cranford, NJ, May 2023 - Aug. 2024, May 2025 - Aug. 2025

- *Scraped 100k non-profit sites and extracted info with LLM structured output to create an AI-powered search engine for over 35,000 volunteer opportunities across America*
- *Created robust pre- and post-processing to improve ETL process to filter sites and address hallucinations cost-effectively with semantic search and checks*
- *Worked on front and back-end features for search experience with React, TypeScript, and Postgres*

FRC Robotics Team Programming Captain, Academy for Information Technology, Sept. 2022 - June 2024

- *Researched and implemented 4 camera computer vision system, robot simulation, and pathfinding to improve autonomous sensing and capabilities*
- *Trained, managed, and led a programming team of 30+ members to create high-level robot code in Java, web apps for match strategy, and Python programming for misc. tasks*
- *Awarded Autonomous and Dean's List Semifinalist Awards*

Coursework

Current: Systems Programming, Algorithms, Tensor Networks

Completed: Data Structures, Micro/Macro Economics, Statistics I, Linear Algebra, Honors Calculus III & IV, Intro to Math Reasoning, Mathematical Theory of Probability, Computer Architecture, Econometrics

Organizations

Quantitative Finance Club, Road to Silicon Valley Program, Rutgers Directed Research Reading Program (Symmetric Functions). ESL Instructor.

Demonstrated Skills

American Statistical Association Fall Data Challenge 2023 (StackOverflow Developer Survey)
Placed Top 3 Nationally
Data Analysis, Business Planning, Pandas, Seaborn, Power Bi, Project Management

Road to Silicon V/Alley & Rutgers Entrepreneurial Society
TechStart Business Pitchathon and Shark Tank
2nd Place and 2nd Place
Business Planning, Pitch Presentation, MVP Creation

Other Awards: 5th place in 8090 AI's Top Coder Challenge, voted Best Honors College Final Plenary Presentation (improving the Rutgers bus system through data), FBLA Local Business Search Website (State Finalist) 2024

Certifications

Oracle Exam 1Z0-811 **Java Foundations** and Exam 1Z0-006 **Database Foundations**, **Microsoft Word**, **PowerPoint**, **Excel**, **Excel Expert**, and **Access** 2019

Projects

Available on GitHub

Scarlet Sync - Modern Rutgers Class Scheduling Startup, Rutgers Bus Data Analysis, Economic Series and Feature Plotter, Calculus Problem Generator, RAG Chat App, A* and Pure Pursuit Visualizers, Arduino and Raspberry Pi Gadgets, and 3D Racing Game

Languages: Python, Java, C++, C, SQL, TypeScript, JavaScript, Bash, Kotlin, Git