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: 4.0 • Computer Science and Mathematics

Academy for Information Technology, Union County
Vocational-Technical Schools, Scotch Plains, NJ
Graduate (Sept. 2020 - June 2024)
QPA: 97.91 • SAT R&W 780 Math 800

Experience

Rutgers Economics Lab Team Lead and Researcher,
Oct. 2024 - Present
- *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*

Software Engineer for Samaritan Scout, Cranford, NJ, May 2023 - August 2024
- *Created an AI-powered search engine for over 5,000 volunteer opportunities in NJ as well as 8 other states*
- *Used TypeScript and Material UI to connect a web-scraped database of opportunities extracted with the OpenAI API*
- *Aided design team to make prototypes developed code*

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*

Organizations

Selected to Road to Quantitative Finance and Road to Silicon Valley Program. Rutgers Directed Reading Program Mentee (Symmetric Functions). English as a Second Language Instructor.

Coursework

Current: Honors Calculus IV, Intro to Math Reasoning, Mathematical Theory of Probability, Computer Architecture, Econometrics

Completed: General Chemistry, Physics, Data Structures, Intro to Micro/Macro Economics, Statistics I, Linear Algebra

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 Top 6
Business Planning, Pitch Presentation, MVP Creation

FBLA Local Business Search Website (State Finalist) and Portfolio-Making App
Android Studio, Business Presentation, Flat File Databases, Web Scraping (BeautifySoup), TypeScript

Mathematical Statistics and Data Sciences Class:
Matplotlib, Seaborn, Scikit Learn, Numpy, Pandas, Google Colab, Jupyter Notebooks, OpenCV, Stereo Vision, Sports Analytics, Tensorflow

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

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

LinkedIn • **GitHub** • **Portfolio** • **Blog**