# Akash Dubey

**Berkeley Heights, NJ | 212-814-3681 | akash.dubey@rutgers.edu | akeboss-tech.github.io | U.S. Citizen**

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 2027)
**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, Statistics I, 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

**NVIDIA Accelerated Computing in Modern CUDA C++, Oracle** Exam 1Z0-811 **Java** 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