

Akash Dubey

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As a passionate Computer Science and Mathematics 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: 4.00 • 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

Software Engineer for Samaritan Scout, May 2023 - Present

- Created an AI-powered search engine for over 5,000 volunteer opportunities in NJ, OH, & the rest of the United States
- Used TypeScript and Material UI to connect a web-scraped database of opportunities extracted and cleaned by the OpenAI API
- Worked in a design team with Figma and Vercel test hosting

Volunteer English Instructor for English as a Second Language at The Connection, 79 Maple Street, Summit, NJ, Dec. 2022 - Present

- Improved English skills of 50+ adult students in 1 to 5 person groups
- Created material and worksheets for other instructors;
- Developed resources site, natural language-powered English worksheet generator, and ChatGPT-based tutoring site.

FRC Robotics Team Programming Captain, High School

- 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

High School Newspaper Webmaster, High School

- Created a freely hosted Jekyll site with HTML, CSS, JS, and Bootstrap to effectively display articles, authors, and comments to meet the needs of our club
- Migrated over 100 articles to new website with web scraper
- Trained editors in Markdown through video series

Coursework

Expected

Data Structures, Honors Calculus III, Intro to Discrete Structures, Honors Calculus IV

Completed

General Chemistry, Physics, Intro to CS, 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

FBLA Local Business Search Website (State Finalist) and Portfolio-Making App

Android Studio, Business Presentation, Flat File Databases, Web Scraping (BeautifulSoup), 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

Oracle, December 2023

Microsoft Word, PowerPoint, Excel, Excel Expert, and Access 2019: Microsoft, Sept. 2020 - June 2021

CompTIA ITF+

CompTIA, June 2022

Proficient Languages

Python, Java, C++, SQL, TypeScript, JavaScript, Bash, Kotlin

Projects

* Available on GitHub

Python Calculus Problem Generator, A* and Pure Pursuit Algorithm Visualizers, Custom 3D Modeling and Prints, Arduino and Raspberry Pi Gadgets, Parody Generating Assistant, and 3D Godot Racing Game