

GUHA MAHESH

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EDUCATION

Northeastern University • Boston, MA • 3.8/4.0 Expected Grad: April 2028
B.S. in Data Science & Business Analytics (DSBA), FinTech focus
• **Relevant Coursework:** Programming with Data 1 & 2, Foundations of Data Science, Discrete Structures, Business Statistics, Financial Management, Financial Accounting, Introduction to Databases, Fintech and Financial Innovation, Marketing and Society,
• **Activities:** John Martinson Honors Program, Dialogue of Civilizations in Belgium

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL
Tools/Libraries: pandas, NumPy, Matplotlib, Scikit-learn, Jupyter, Keras, Docker, React, Flask, Express.js,

WORK EXPERIENCE

Data Science Tutor, Knack, Boston January 2025 - Present

- Achieved a 5-star rating by helping 10 students improve their grades and Python Skills
- Tutored pandas, NumPy, stats, and EDA, enabling students to apply data science concepts in coursework and projects

Facilitator, Rev, Boston August 2025 – Present

- Created multiple social media videos to boost engagement and drive attendance at info sessions
- Reviewed over 30 applications to the club and selected candidates for interviews
- Evaluated and interviewed candidates, determining those who would provide the greatest impact for Rev

Data Science Intern, Green Joules, Remote June 2023 – September 2023

- Evaluated biofuel feasibility for each of 11 crops by analyzing production volumes, commodity prices, and food security requirements
- Investigated crop by-products for biofuel use and presented recommendations based on data analysis
- Generated visualizations that helped decide on whether to open a biorefinery in Texas

PROJECT EXPERIENCE

FlightScope • Full-Stack Data Scientist • Python, Flask, React, Scikit-learn, pandas August 2025 - Present

- Developed a web-app which helps birders know the optimal conditions for viewing specific birds.
- Engineered a data pipeline to process 116GB of bird observation data, enriching it with NASA climate features and training 30+ Poisson regression models to predict optimal sighting conditions
- Implemented a database to store species weights and enable users to input a bird and receive its optimal spotting conditions.

Policy Playground • Data Scientist • Python, Flask, MySQL, pandas, Scikit-learn May 2025 – June 2025

- Built multiple linear regressions that predict S&P 500 and five major currency exchange rates using normalized fiscal and monetary policy instruments and lagged historical data.
- Designed a recommender system to match users with relevant policies, improving discoverability and increasing engagement with policy content.
- Containerized application with Docker to streamline development and eliminate environment issues.

ClubStop • Full-Stack Developer • React, TypeScript, MySQL, Express.js, Node.js February 2025 – August 2025

- Engineered a full-stack application for university students to find, rate, and promote clubs and organizations.
- Structured and implemented an API blueprint with 20 endpoints to support club management and user interactions.
- Implemented secure JWT authentication with token refresh and role-based access to ensure authorized access.

Coral Reef Health & Ocean Acidification Analysis • Data Analyst January 2025 – March 2025

- Collected and processed environmental and economic data to evaluate the health of coral reefs
- Analyzed population trends for 5 coral species and 5 indicator species using Python and pandas
- Mapped artificial reef locations and coastal GDP data using geopandas to analyze conservation and economic impacts.
- Created visualizations highlighting declines in biodiversity and coral cover.