

# GUHA MAHESH

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## EDUCATION

Northeastern University • Boston, MA • 3.8/4.0 Expected Grad: 04/2028  
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,  
• **Activities:** Facilitator at Rev, 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 01/2025 - 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  
Data Science Intern, Green Joules, Remote 06/2023 – 09/2023  
• 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 08/2025 - Present  
• Developed a web-app which helps birders know the optimal conditions for viewing specific birds.  
• Constructed 30 Poisson distribution models, which lets users know the probability of spotting 30 specific birds based off weather and time 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 05/2025 – 06/2025  
• 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, Node.js 02/2025 - 08/2025  
• 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 01/2025-03/2025  
• 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.