Reese Burns

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EDUCATION

New York University | New York, NY   May, 2025
    Bachelor of Arts in Computer Science | Minor in Mathematics
    Relevant Courses: Data Structures & Algorithms, Data Management, Artificial Intelligence,
          Predictive Analytics, Software Engineering, Natural Language Processing, Operating Systems
    Math Courses: Statistics, Discrete Mathematics, Linear Algebra
    Stern School of Business: Financial Accounting, Decision Models & Analytics

TECHNICAL SKILLS

Data Analysis & Data Visualization: Python (Pandas, NumPy), SQL, Excel, Tableau, R
Data Science & Machine Learning: Python (Scikit-Learn, TensorFlow, Matplotlib, Seaborn), Java, C, C++
Database Management: SQL, SQLite, MySQL, MongoDB
Web Development & Design: HTML, CSS, JavaScript, Flask, Node, React, Express
Cloud & Systems: Docker, DigitalOcean, Linux, Unix, Git
Business & Financial Analysis: Capital Markets, financial modeling, financial reporting, forecasting

PROJECTS

Multi-Label Token Classification of Healthcare Documents | Python, Bio_ClinicalBERT   Feb – May 2025
- Built a clinical NLP pipeline to classify medical tokens using a fine-tuned Bio_ClinicalBERT model
- Generated and labeled synthetic clinical sentences using BIO tagging for entity recognition
- Achieved 93.1% F1 score on test data, ensuring accurate classification without manual labels

Ocean Surface Heat Flux Analysis | Python (Pandas, Seaborn, Cartopy)   Feb – May 2025
- Generated global plots and seasonal overlays to visualize latent heat flux trends in the ocean surface
- Computed and compared regional correlations between salinity, temperature, and heat flux in ENSO years
- Interpreted spatial patterns to identify temperature as the dominant influence on latent heat flux

NYC Bars Web-App | Python, Docker, Flask, MongoDB, HTML, CSS   Oct 2024 – Jan 2025
- Developed a full-stack, end-to-end website that manages and organizes NYC bars by various features, enhancing user exploration and discovery
- Utilized Docker containers to create a portable and scalable deployment environment
- Implemented dynamic search, filtering, and personalized recommendations to improve user experience

Predicting Airbnb Prices in Europe | Python (Scikit-Learn, TensorFlow, Seaborn)   Nov – Dec 2024
- Conducted EDA to identify trends in listing prices based on property type, location, and amenities
- Optimized regression and deep learning models like Multi-Linear Regression, Gradient Boosting, and Deep Neural Networks to predict airbnb prices
- Visualized key insights to determine significant predictors of airbnb prices across Europe

Obesity Rates Analysis | Python, SQL, R   August – Sept 2024
- Performed exploratory data analysis based on fast food restaurant density and obesity rates across the U.S.
- Built predictive models and data visualizations to explore potential correlations between these variables
- Utilized clustering algorithms, like PCA and K-Means, to identify underlying patterns

EXPERIENCE

CS Teaching Assistant | *NYU Courant Institute of Mathematical Sciences*   Jan. 2023 – May 2025
- Assistant for "Introduction to Computer Programming" and "Data Structures" courses at NYU
- Apply Python and Java to analyze and debug assignments for over 40+ students per semester
- Mentored students to build confidence and technical proficiency, fostering collaboration and teamwork

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Marketing Analytics Intern | *Saffron Communities***,** San Francisco, CA   June 2022 – Sept. 2022
- Leveraged Excel to analyze event data to provide recommendations that support strategic decision-making
- Collaborated with clients to understand business needs and deliver detail-oriented, actionable insights to optimize event planning and outreach

NCAA DIII Athlete | *New York University Swim & Dive***,** New York, NY   Sept. 2020 – May 2022
- Balanced 24+ hours per week of training, travel, and competition with academic responsibilities
- Developed strong time management, dedication, leadership, and communication skills
- *Intercollegiate Athletics Advisory Committee (2021):* recognized for outstanding academic achievement

ACTIVITIES

Clubs and Societies: Intercollegiate Athletics Advisory Committee, The Penn Club

Women in Tech Club Member | *Girls Who Code, Women in Data Science*   July 2023 – Present
- Collaborate on tech-driven projects, developing applications, websites, and data-driven solutions
- Attend workshops, speaker panels, and networking events focused on technical skills development, problem-solving, and leadership in tech

Volunteer | *New York Cares*   July 2023 – Present
- Assisted adults with physical therapy exercises, ensuring effective and engaging sessions
- Provided math tutoring to children in grades 1-5, fostering a supportive educational environment

Head Volunteer | *USA Swimming Foundation: Make a Splash*
- Instructed underprivileged children in swimming, focusing on safety and proper technique
- Coordinated and promoted fundraising events, increasing community engagement and support