Maggie Rosen

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LinkedIn: https://www.linkedin.com/in/maggie-rosen/
GitHub: https://github.com/MaRos3n

AI enthusiast with hands-on experience in artificial intelligence and machine learning. Completed the UNC AI Bootcamp, where I gained comprehensive knowledge in data analysis, machine learning algorithms, and neural networks. Proficient in various lab techniques and software, with a background in research and data-driven projects.

Technical Skills

Languages: Python, SQL, HTML5
Applications: GitHub, DBeaver
Tools: Excel, Seaborn, Scikit learn, TensorFlow, Keras, Databasing, Pandas, Jupyter Notebook, Prophet

Projects

AI and Machine Learning | https://github.com/MaRos3n?tab=repositories
Worked on real-world projects involving data preprocessing, model building, and deployment during the UNC AI Bootcamp.
Role: Participant
Tools: Python, Pandas, TensorFlow, Keras, scikit-learn, Prophet
Projects:
Cryptocurrency Stock Analysis |
[https://github.com/MaRos3n/Cryptocurrency-Analysis-]

UEFA Euro Championship Predictions |
[https://github.com/MaRos3n/UEFA-Euro-Championship-Predictor/tree/main]

Email Spam Detection |
[https://github.com/MaRos3n/classification-challenge/blob/main/spam_detector.ipynb]

Student Loan Repayment Predictor |
[https://github.com/MaRos3n/neural-network-challenge-1/blob/main/student_loans_with_deep_learning.ipynb]

Bee Pathogen Research
Studied bacteriophage interactions with the bee pathogen *Paenibacillus larvae* and successfully integrated a bacteriophage into the uninfected bacterial host.
Role: Research Intern
Tools: Geneious, NCBI BLAST, PCR

Phage Annotation
Annotated newly discovered bacteriophages for the GenBank National Database as part of the SEA-Phages Program.
Role: Lab Assistant
Tools: DNA Master, PECAAN, Phamerator

Work Experience

Undergraduate Lab Research Assistant | North Carolina State University
Aug. 2019 - July 2020

- Studied bacteriophage interactions with *Paenibacillus larvae*.
- Utilized programs such as Geneious and NCBI BLAST.
- Performed lab techniques like PCR, Plate streaking, and plaque isolation.

Lab Assistant | Durham Technical Community College
Dec. 2018 - May 2019

- Prepared lab experiments, including making agar plates and operating autoclaves.
- Conducted interesting labs such as establishing a halophile culture and a yeast spectrophotometer lab.

Pastry Chef | Loaf Bakery
Jan. 2015 - May 2019; Feb. 2023 - Feb. 2024

- Introduced various pastries to the bakery.
- Trained fellow pastry chefs in traditional French pastry arts.

Education

Certificate, Artificial Intelligence Bootcamp
UNC Bootcamp
Graduated: 2024 (Currently enrolled)

High School Diploma
Riverside High School, Durham, NC
Graduated: 2012