

Maggie Rosen

Data Analyst with expertise in Python, SQL, and data visualization tools such as Tableau and Matplotlib. Proven ability to apply analytical skills to uncover insights and drive data-informed decision-making. Hands-on experience in machine learning, data analysis, and project management. Passionate about leveraging data analytics to solve business challenges.

EXPERIENCE

Loaf Bakery, Durham, NC — Pastry Chef

February 2015 - August 2019 ; February 2023 - February 2024

Lead baker and pastry chef for chilled french pastries sold in the establishment. Analyzed customer preferences to introduce high-demand products, improving sales of new items. Managed and trained new employees, optimizing kitchen workflows and improving production efficiency.

North Carolina State University, Raleigh, NC — Undergraduate Lab Research Assistant

August 2019 - July 2020

Studied and analyzed data on bacteriophage interactions with *Paenibacillus larvae*. Utilized programs such as Geneious and NCBI BLAST to further understand and prepare the data for analysis. Produced data visualizations and reported findings to the research team to support decision-making. Performed lab techniques such as PCR, Plate streaking, and plaque isolation.

Durham Technical Community College, Durham, NC — Undergraduate Lab Assistant

December 2019 - May 2020

Prepared laboratory experiments, including data collection and analysis for halophile and yeast studies. Produced necessary tools and environments for experiments including making agar plates and operating autoclaves.

TECHNICAL PROJECTS

Plant Identifier and Diagnosis CNN Model,

https://github.com/MaRos3n/Plant_ID_and_Diagnosis

Developed a convolutional neural network (CNN) model to classify plant species and diagnose plant diseases using TensorFlow and Keras. Achieved a baseline accuracy rate of 67%, with ongoing model tuning to improve performance.

2024 UEFA Euro Championship Prediction Model.

<https://github.com/MaRos3n/UEFA-Euro-Championship-Predictor>

Built a prediction model using unsupervised learning to analyze past match data and forecast top teams in Euro 2024. Applied Python and scikit-learn to cluster team performances and identify key predictors with a 50% success rate.

Cryptocurrency Stock Analysis Machine Learning Model,

<https://github.com/MaRos3n/Cryptocurrency-Analysis->

Created a machine learning model using linear regression and Prophet to predict cryptocurrency prices based on historical data with an accuracy of 95%.

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<https://www.linkedin.com/in/maggie-rosen/>

GitHub:
<https://github.com/MaRos3n>

KEY SKILLS

Programming Languages:
Python, SQL

Data Analysis & Visualization:
Pandas, NumPy, Matplotlib, Tableau

Machine Learning & AI:
TensorFlow, Keras, Scikit-learn

Database Management: SQL, Relational Databases

Tools: Git, Jupyter Notebooks

Soft Skills: Problem-solving, Communication, Time Management

EDUCATION

UNC Artificial Intelligence Bootcamp,
Chapel Hill, NC — *Certificate*

March 2024 - August 2024

Gained comprehensive knowledge in AI, machine learning, deep learning, and natural language processing.

Google Professional Data Analytics Certificate,
Remote — *Certificate*

August 2024 - Present

Gained expertise in data cleaning, analysis, and visualization using Python, SQL, and Excel.

Riverside High School,
Durham, NC — *Diploma*

August 2008 - May 2012