Matthew Saad

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Education

SUNY Brockport — Brockport, NY
B.S. Computer Science/Mathematics — *Aug 2020 – May 2024*

- Double Major with concentrations in Software Engineering and Statistics.
- Member of the Honors College; 3.9/4.0 GPA.

Relevant Coursework

- Artificial Intelligence
- Database Management
- Data Analytics
- Linear Algebra
- Software Engineering
- Probability Theory
- Computer Networks
- Time Series

Experience

Data Science Intern — Jun 2022 - Present
Excellus BCBS — *Rochester, NY*

- Engineered a KNN and Random Forest-based recommendation engine to enhance member experience.
- Led the deployment of a REST API, achieving a 60% model efficiency gain through refactored code.
- Developed three RShiny applications to streamline model scoring and improve operational workflows.
- Designed two internal chatbots using generative AI tools, streamlining information dissemination.
- Explored the implementation of BERT and T5 models for telehealth call summarization.
- Effectively presented work to Excellus BCBS stakeholders, executives, and the broader company.

Student Employee — Aug 2022 - Present
SUNY Brockport — *Brockport, NY*

- TA for CSC203: Object-Oriented Programming and CSC311: Computer Architecture (2 yrs.)
- Math tutor in the SUNY Brockport Academic Success Center (1 yr.)
- Grader for MTH201: Calculus I (0.5 yr.)

Intel Representative — Sep 2021 - Mar 2023
ActionLink — *Henrietta, NY*

- Improved customer engagement with Intel's initiatives, resulting in increased brand awareness and sales.
- Boosted BestBuy Henrietta employee participation in Intel's promotions and programs by 23%.

Projects

BrockportGPT | *Senior Honors Thesis* | github.com/msaad02/honors-thesis — Apr 2023 – Present

- Leveraged state-of-the-art advancements in generative AI to create a chatbot for SUNY Brockport.
- Utilized approaches such as RAG, fine-tuning, and training a from scratch 184M transformer model.
- Achieved strong performance that consistently delivers relevant responses to user inquiries.
- Presented BrockportGPT at SUNY Brockport Scholars Day, CCSCNE 2024, and SURC 2024.

Chess AI Bot | *AI/ML Final Project* | github.com/msaad02/final-project-ai-ml — May 2023

- Developed a chess AI bot using deep learning techniques with minimax and alpha-beta pruning.
- Gained experience with Tensorflow and learned basics of neural network training.
- Worked with a team of four to develop and present our final project to the class.

Car Price Prediction | *Data Science Final Project* | github.com/msaad02/final-project-data-sci — Dec 2021

- Learned the mathematical foundation behind different machine learning algorithms.
- Performed data manipulation on a dataset of used cars to predict their price.

Technical Skills

Languages: Python, R, Java, SQL, C, Bash
Developer Tools: Git, Docker, Databricks, HuggingFace, Posit Connect
Libraries: PyTorch, Tensorflow, Tidyverse, pandas, NumPy, Matplotlib