

# MATTHEW SAAD

☎ 585-270-9450 | ✉ [msaad02@outlook.com](mailto:msaad02@outlook.com) | [in linkedin.com/in/mattsaad/](https://www.linkedin.com/in/mattsaad/) | [github.com/msaad02](https://github.com/msaad02)

## EDUCATION

### SUNY Brockport

*B.S. Computer Science/Mathematics*

Brockport, NY

Aug 2020 – May 2024

- Double Major with concentrations in Software Engineering and Statistics.
- Honors College; 3.89/4.0 GPA *Summa Cum Laude*.

## EXPERIENCE

### Excellus BCBS

*Business Intelligence Administrator*

Rochester, NY

Jun 2024 - Present

- Administered Databricks platform, ensuring secure access control and optimal workspace configurations.
- Engineered automated cluster management workflows, reducing resource overhead and ensuring security compliance.
- Built a PySpark Delta Live Table pipeline, integrating Databricks system tables and API data for real-time cost tracking.
- Optimized Databricks platform performance and security, ensuring high availability for analytics workloads.

*Data Science Intern*

Jun 2022 - May 2024

- 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.

### SUNY Brockport

*Student Employee*

Brockport, NY

Aug 2022 - May 2024

- Teaching assistant 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.)

### ActionLink

*Intel Representative*

Henrietta, NY

Sep 2021 - Mar 2023

- 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%.

## PUBLICATIONS

**Closed Domain Question-Answering Techniques in an Institutional Chatbot** | *ICECCME 2024*

Jan 2024 – Nov 2024

- M. Saad, Z. Qawaqneh. | IEEE, 2024. <https://doi.org/10.1109/ICECCME62383.2024.10796881>

## PROJECTS

**BrockportGPT** | *Senior Honors Thesis* | <https://github.com/msaad02/BrockportGPT>

Apr 2023 – Jun 2024

- Designed and implemented an institutional chatbot using Retrieval-Augmented Generation (RAG).
- Built a 184M-parameter transformer model from scratch using PyTorch, fine-tuned for domain-specific QA.
- Presented research findings at SUNY Brockport Scholars Day, CCSCNE 2024, and SURC 2024.

**Chess AI Bot** | *AI/ML Final Project* | [github.com/msaad02/final-project-ai-ml](https://github.com/msaad02/final-project-ai-ml)

May 2023

- Developed a deep learning-based chess AI using TensorFlow, applying minimax and alpha-beta pruning.
- Implemented a streaming dataset pipeline for large-scale training, optimizing memory and batch processing.

**Car Price Prediction** | *Data Science Final Project* | [github.com/msaad02/final-project-data-sci](https://github.com/msaad02/final-project-data-sci)

Dec 2021

- Studied the mathematical foundations of machine learning, including gradient descent and optimization.
- Performed data manipulation and modeling on a dataset of used cars to predict their price.

## TECHNICAL SKILLS

**Languages & Tools:** Python, SQL, R, Java, C, Bash, Git, Docker

**Big Data & Cloud:** Databricks, Spark, PySpark, Azure, AWS

**ML & Libraries:** PyTorch, Hugging Face, pandas, NumPy, TensorFlow, Matplotlib, Tidyverse