

Matthew Saad

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Overview

Versatile technical professional with a strong foundation in mathematics, computer science, and AI. Proven experience leading data infrastructure, platform administration, and scalable pipeline development in cloud environments. Skilled at bridging engineering and data science for efficient, intelligent systems.

Skills

Core Languages: Python, SQL, Terraform

Data & Infra Tooling: Apache Spark, Databricks, Azure, Data Lake, Power BI

ML & Gen-AI Tooling: PyTorch, HuggingFace, scikit-learn, TensorFlow, LLMs, PEFT

MLOps & DevOps: Azure DevOps, CI/CD, Docker, Git, model deployment/monitoring

Experience

BI Admin @ Excellus BCBS

Jun 2024 – Present

- Primary Azure Databricks admin for 100+ engineers—owned infra, costs, optimization, and platform features.
- Engineered a Spark-parallel ingest of 4 TB from Oracle, reducing costs and runtime by 85%.
- Built Azure DevOps CI/CD (Databricks Asset Bundles + service connections) for simple, version-controlled releases.
- Surfaced Databricks spend by streaming billing logs to Power BI; flagged waste that cut monthly cloud costs 31%.
- Led Spark/compute tuning boot camp for 50 engineers; fixes cut costs 40% on production jobs.
- Published four internal Python libraries (ETL + governance) now used by 60+ pipelines.

Data Science Intern @ Excellus BCBS

Jun 2022 – May 2024

- Built two LLaMA-2 based RAG chatbots for querying HR & policy docs; presented to C-suite and secured buy-in.
- Developed a seq-to-seq transformer predicting ICD-10 codes from 80k+ records, improving diagnostic forecasting.
- Refactored and deployed model scoring API, improving efficiency by 60% and reducing compute time.
- Prototyped prior-authorization automation and telehealth call summarization with BERT and T5 models.

Student Employee @ SUNY Brockport

Aug 2022 – May 2024

- Teaching assistant (Java OOP, MIPS), math tutor/grader.

Projects

BrockportGPT | Code: [msaad02/brockport-gpt](#)

Apr 2024

- Created an open-source chatbot for my undergraduate institution using RAG and LLM Finetuning.
- Built a 184M-parameter transformer model from scratch using PyTorch, fine-tuned for domain-specific QA.
- Published research in an IEEE conference paper as part of ICECCME 2024 ([paper/publication](#)).

Chess AI Bot | Code: [msaad02/chess-ai](#)

June 2025

- Trained MLP and CNN models for best move prediction based on open source LiChess game database.
- Engineered highly parallel ETL pipeline for large-scale training, optimizing memory and batch processing.

Education

Georgia Tech

M.S. Computational Analytics

Starting Aug 2025

SUNY Brockport

B.S. Computer Science & Mathematics

Aug 2020 – May 2024

- Double major with concentrations in Software Engineering and Statistics.
- Honors college; 3.9/4.0 GPA *Summa Cum Laude*.