

Matthew Saad

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Overview

Machine learning engineer with hands-on experience training models on tens of millions of data points, building scalable pipelines, and deploying inference infrastructure. Deep understanding of model design, data representation, and GPU optimization — bridging research and production.

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*.