EVAN MCCORMICK

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PROFESSIONAL SUMMARY

Machine Learning and Software Engineer with 3 years of experience developing full-stack solutions in an enterprise setting. Completed a Master's in Data Science with coursework spanning statistics, data visualization, Python, SQL, and ML. Master's curriculum focused on building and testing ML models, with an emphasis on text mining, NLP, and Reinforcement Learning. Experience communicating technical concepts and techniques from AI/ML/DS to a general audience through writing on Substack.

EDUCATION

Master of Science, Data Science
University of Colorado Boulder | Sep 2022 – May 2025
- **Coursework:** Statistics and Data Analysis, Linear Algebra, Data Visualization, Data Mining and Text Mining, Machine Learning, Neural Networks, Natural Language Processing (NLP), Reinforcement Learning, Big Data Architecture

Bachelor of Science, Psychology & Neuroscience
Hofstra University | 2017 – 2021

PROFESSIONAL EXPERIENCE

Software Engineer I
BAE Systems, Inc. | Jul 2021 – Mar 2024 | Remote
- Worked with a cross-functional team to develop and maintain a full-stack enterprise GIS application, explaining concepts to colleagues and new team members.
- Designed intuitive, responsive UI components for data visualization and interactive analytics.
- Implemented new data models and schemas, integrating them into existing architectures.
- Engineered comprehensive unit and integration tests to validate system reliability and performance.

PROJECTS

The Embodied Communication Game | A Task for Machine Learning Agents
University of Colorado Boulder | Aug 2024 – Dec 2024
evanmccormick37.github.io/independent-study-F24-learning-RL-with-gymnasium
- Implemented and evaluated SOTA RL models (DQN, PPO, A2C, LSTM) in an environment requiring emergent strategies.
- Designed custom RL environment and evaluation metrics using TensorFlow, Keras, and Gymnasium; summarized findings in a research paper.

Distracted LLM | A Full-Stack RAG Architecture
Sep 2025 – Nov 2025
Demo: full-stack-rag-neon.vercel.app
- Full-stack RAG document-answering app: React (Vite) front-end, Python back-end, ChromaDB + SQLite storage, FastAPI, google.generativeai.
- Containerized with Docker, hosted on GCP micro-VM; front-end deployed on Vercel.

Research Pod | A Full-Stack RAG Text-to-Speech Generator
University of Colorado Boulder | Feb 2025 – Apr 2025
- Team-built full-stack web application with a Web Scraping → RAG → TTS workflow for podcast generation.
- Built UI with React, TailwindCSS, and TanStack Router; organized project via Trello, Slack, and GitHub.

TECHNICAL SKILLS

- **Programming Languages:** Python (*NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Keras, PyTorch, Gymnasium, FastAPI*), R (*Tidyverse, ggplot2*), JavaScript (*React*), Java, Kotlin, SQL
- **Frameworks & Tools:** Docker, GCP, Anaconda, Git/GitHub, Bash, Firebase, Vercel
- **AI & Machine Learning:** Classical ML (Naive Bayes, Random Forest, Gradient Boosting, SVM, GLM, Logistic Regression), Unsupervised Learning (Clustering, ARM, PCA), Neural Networks (CNN, RNN, LSTM, GNN, DDPM), Reinforcement Learning (DQN, PPO, A2C), NLP, RAG
- **Data Science:** Statistical Data Analysis, Inferential Statistics, Linear Algebra, Data Mining, Text Mining, Web Scraping, Data Visualization, Data Communication
- **Software Development:** Full-Stack Development, Enterprise GIS, REST API Design, Containerization (Docker), Cloud Deployment (GCP, Vercel), Scrum/Agile, DevOps

WRITING & COMMUNICATION

Substack Newsletter: evmojo37.substack.com
- Writes about projects combining interests within ML, Data Science, Software Engineering, explaining the exploration process, concepts and techniques to a general audience.