Dragos Mihai Sorescu

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EDUCATION

Durham College   Oshawa, ON
Honours B.S. Artificial Intelligence   September 2023 – Present
- **GPA:** 3.82 | **Winter 2025 Honour Roll**
- **Relevant Courses:** Machine Learning, Statistics, Data Structures and Algorithms, Database Management Systems, Linear Algebra, Calculus, Computer Architecture, Operating Systems, Systems Analysis and Design.

PROJECTS

Temperature Trend Prediction App | Python, Pandas, Scikit-learn, XGBoost, FastAPI, Streamlit, Docker, GCP
Solo Developer
- Trained an **XGBoost** regression model to predict local temperature trends using historical weather data from a local news station
- Cleaned and transformed datasets with **Pandas** and **NumPy**; visualized trends and feature importance using **Matplotlib**, **Plotly**, and **SHAP**
- Evaluated model performance using **RMSE**, **MAE**, and R^2; applied regularization and cross-validation to mitigate overfitting
- Built backend with **FastAPI** and frontend with **Streamlit**; packaged model training and inference using Scikit-learn
- Containerized with **Docker** and deployed on **Google Cloud** via **Cloud Run** for scalable, low-latency public access

Financial News Summarization Agent | Python, Pandas, LangChain, FastAPI, Ollama, Docker, GCP, Chroma
Solo Developer
- Built a **Retrieval-Augmented Generation** (RAG) pipeline to deliver real-time financial news insights
- Automated data ingestion with **Google Cloud Scheduler** via **Alpha Vantage News API**, storing structured JSON in **Cloud Storage**
- Processed and summarized articles using **Pandas** and **newspaper3k**; embedded vector representations into a **Chroma** database for retrieval
- Integrated **Ollama** to run locally hosted LLMs to generate context-aware commentary, integrated through a **FastAPI** backend deployed on **Google Cloud** via **Cloud Run** for scalable and reliable performance

PROFESSIONAL EXPERIENCE

SportChek   Oshawa, ON
Hardgoods Associate   May 2024 – Present
- Assisted customers with product selection and provided technical knowledge of sporting equipment, ensuring high-quality service and satisfaction
- Collaborated with team members to meet weekly performance targets, including Triangle Mastercard sign-ups, through data-informed customer engagement strategies
- Maintained accurate inventory levels and organized merchandise across multiple product categories

Brimacombe Ski Club   Orono, ON
Retail Team Member   December 2023 – March 2024
- Stayed up to date on product lines and industry trends to provide tailored recommendations to customers
- Analyzed customer challenges and proposed personalized solutions to enhance satisfaction and encourage repeat engagement
- Supported high-volume retail operations by coordinating with team members and adapting to dynamic customer needs on the sales floor

SKILLS & INTERESTS

Programming Languages: Python, C++, SQL, Bash

Libraries: PyTorch, TensorFlow, FastAPI, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Plotly, XGBoost, Streamlit,

Cloud & DevOps: AWS, GCP, Docker, Terraform, Jenkins, Linux, Prometheus, Grafana, Snowflake

Developer Tools: Git, GCC, CMake, MySQL, Tableau, Power BI

Interests: Rock Climbing, Snowboarding

Languages: English (Fluent), Romanian (Fluent)