SPENCER HAYES-LAVERDIÈRE

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Passionate data scientist and machine learning engineer with experience solving real-world problems in computer-vision, natural language processing, and finance. Currently leading the data initiative at a retail tech startup focused on scan-and-go and autonomous checkouts.

EXPERIENCE

2021 – CURRENT
DATA SCIENTIST & MANAGER, LEAV

- Lead the development and deployment of a real-time recommendation system.
- Designed and integrated a robust data pipeline to store anonymized app usage data in a data lake.
- Developed and deployed a dashboard API capable of serving historical metrics to hundreds of stores simultaneously

MAY 2021 – SEP 2021
DATA SCIENTIST – CONTRACT PART-TIME, ANAGRAPH

- Providing data analyses to clients with a specialization in geospatial data.
- Developing custom location intelligence tools
- Improving in-house data science practices and tooling.

2020 – 2021
MACHINE LEARNING ENGINEER, SQUAREFEET.AI

- Leading the development of pricing algorithms and models.
- Integrating explainable AI tools such as SHAP to give insights on models and track metrics like class bias on model performance.
- Training and deploying cloud models through AWS' SageMaker.

2018 – 2020
INSTRUCTOR, UNIVERSITY OF OTTAWA

- Taught enrichment courses in Electrical & Computer Engineering
- Led in-school workshops teaching young kids engineering skills such as coding and 3D printing

SKILLS

- **Bilingual** (English/French)
- **Statistics/Machine Learning**: Statistical Analysis, Linear/Logistic Regression, Clustering, Encoding/Decoding, CNNs, RNNs
- **Data tools**: Python, Java, C, FPGA, PostgreSQL, NoSQL, AWS, GCP, Git, DVC, Linux
- **Explainable AI**: SHAP, LIME

ARTICLES

Finding Seasonal Trends in Time-Series Data with Python. *Towards Data Science*. Jun 7, 2021

EDUCATION

2016 – 2020

BASC COMPUTER ENGINEERING (CO-OP), UNIVERSITY OF OTTAWA

Minor in Business Management & Entrepreneurship.

Capstone: Land-robot and aerial drone co-operative autonomous system.