

# 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](#)

- Led 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](#)

- Provided data analyses to clients with a specialization in geospatial data.
- Developed custom location intelligence tools.
- Improved in-house data science practices and tooling.

2020 – 2021

### MACHINE LEARNING ENGINEER, [SQUAREFEET.AI](#)

- Led the development of pricing algorithms and models.
- Integrated explainable AI tools such as SHAP to give insights on models and track metrics like class bias on model performance.
- Trained and deployed 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.