SPENCER HAYES-LAVERDIÈRE

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Contact

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Languages & Tech

- English/Français
- Python
- Java
- Keras, Tensorflow, Scikit-learn
- Google Cloud
- Github & BitBucket
- Nltk library
- Linux
- SQL and NoSQL databases
- DevOps & Agile

Education

University of Ottawa
BASc Computer Engineering
Minor - Business & Entrepreneurship

ÉSC Nouvelle-Alliance
Diploma

Professional Profile

Computer Engineer with hands-on experience in neural networks, autonomous vehicles, and computer vision. Currently leading development of prediction models at a PropTech startup.

Projects

Music Genre Classification with a Neural Network

- **Multi-layer feed forward** neural network
- Built using **Keras** and **TensorFlow**
- Model had an averaged **100% improvement** over baseline

Meaning.ly

- Desktop app that can **search word documents** for sentences semantically similar to an input
- Built using the **Universal Sentence Encoder** and **nltk** library
- Included a **GUI** for easy use

Experience

SquareFeet.ai
Machine Learning Developer · 2020 –Present · Montreal

- Leading the development of real estate models
- Implemented a feature to give **interpretability to deep neural networks**
- Involved with entire ML pipeline (data cleaning to model deployment)
- Work with data/inputs of all different forms (text, continuous numbers, categorical)

University of Ottawa
Instructor · 2018–2020 · Ottawa

- Taught two week-long enrichment courses in Computer Engineering to high school students
- Led workshops for students and at-risk youth

Invista
Summer Engineering Role · Summer 2017 · Kingston

- Oversaw the manufacturing process of nylon 6,6
- Retrieved samples and performed inspections on product.