

Wasim Boughattas

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WORK EXPERIENCE

Environment and Climate Change Canada

Sep. 2022 – Current

Junior Data Scientist / Junior Data Engineering Climate Policy Implementation Co-op Intern (4 months)

Gatineau, QC

- Automated financial reporting by building software using Python that executes account reconciliation, performs data extraction from SAP and prepares financial reports and statements
- Participated in the standardization of reports and templates that aims to produce consistent and actionable information from various systems and sources

Deloitte Canada

Jan. 2021 – Aug. 2022

Omnia AI: Data Engineer - Co-op/Intern (8 months)

Montreal, QC

- Constructed a data pipeline to process streamed & chunked data on AWS and simulated data extraction by creating a networking infrastructure: VPC, RTB, ELB, NAT, and generating live data from Guard Duty, Firewall (flow/alerts), EC2.
- Automated (1) extraction processes using Lambda, Kinesis, Firehose, (2) transformation processes using EMR (PySpark), and (3) loading processes using S3, Document DB, Dynamo DB, for front-end visualization, reporting, and data science.
- Created an automated classification tool using NLP to classify and map client's products to a target category with unit tests
- Presented and communicated actionable insights in a way tailored to specific audiences and clients' needs using PowerBI.
- Translated client's propositions into quantitative queries and collected/cleaned the necessary data using Pandas.

Vanier College

Sep. 2018 – Dec. 2018

Sciences/Math Tutor & Nominations and Elections officer

Montreal, QC

- Tutored peers in math and science and guided them to find better study methodologies.
- Implemented electoral procedures, established electoral lists, and organized elections.

EDUCATION

Concordia University

2019 - Expected 2022

BSc, Specialization in Actuarial Mathematics (co-op) & Minor, Computer Science

Montreal, QC

- Member of the Golden Key Society
- Irshad Family Scholarship (Entrance Bursary in Actuarial Mathematics)
- Dean's Roll for 3.75+ GPA (2020)

PROJECTS

Stock Trading Robot

Software that extracts real-time and historical data from trading exchanges, stores them in a locally hosted time series NoSQL database, and automates intraday trading decisions using technical analysis and predictive models like ARIMA, LSTM, TF-IDF, and HMM, which are implemented using Spark ML in a Multi-Node Apache Spark Cluster.

UCI CIFAR Various Analyses

Deployed several machine learning models (SVC, Naïve Bayes, KMeans, CNN, Decision Trees/Forests) using GridSearch, RandomSearch, and custom-made Search on multiple datasets from UCI and CIFAR using Scikit-Learn and PyTorch.

COVID-19 SQL Vaccination System

A SQL database system & PHP web interface that keep track of, monitor, and control the population's vaccination status against the COVID-19 pandemic.

University Chatbot

A retrieval/generative closed domain chatbot developed using Python to respond to questions by running SPARQL queries against a locally hosted RDF database (>300K triples automatically generated from lecture notes and students' relational DB).

SKILLS & INTERESTS

Technical Skills: Java • Scala • Python: Pandas, Matplotlib, Scikit-Learn, PyTorch, Keras • SQL: SparkSQL, MySQL, HiveQL, SPARQL, MongoDB, DynamoDB • R

Software Skills: AWS, Spark, Docker, InfluxDB, PowerBI, Git, Linux (Amazon Linux 2, Ubuntu Server)

Interests: Soccer, Bodybuilding, Reading