BOUKARI YAMEOGO

Data Scientist – Cyber Security

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Portfolio: https://yamess.github.io

PROFILE

- **Machine Learning Engineering**: Design, implement and deploy machine learning algorithms regardless scalability and performance in big data environment.
- **Reinforcement Learning:** RL algorithms implementation (Deep Q-Learning, Double Deep Q-Learning and Dueling Deep Q-Learning)
- **Deep Learning Developer**: Natural Language Processing and Understanding, and Graph Neural Network and Convolutional
- **Development in Big Data Environment**: Databricks, Spark, Spark SQL, PySpark, MlFlow
- **Cloud computing**: Google Cloud Platform (GCP)
- **Framework for CI/CD Model deployment**: Django, FastAPI, Jenkins, GitHub, Docker
- **Programming Languages**: Python, C#, Dart, TypeScript
- **Bilingual**: French and English

EDUCATION

Master of Business Intelligence – Data Science, HEC Montréal,	Dec. 2020
Azure certificate – Azure Machine Learning, **Collège Maisonneuve**,	Nov. 2018
Master of science – Physics (Astrophysics) - Université de Moncton,	Oct. 2014

EXPERIENCES

Position: Data Scientist – Cyber Security (Internal Thread)   May. 2020 – present
Company: Desjardins – Cyber Security Team – Internal Thread
Location: Montreal

- Use of graph convolution network to embed user and department nodes data, that allowed the team to improve the performance of the transaction's anomaly detection model by 10%
- Use of NLP to classifier emails and attachments into multiple classes that allowed the team to intercept sensitives information's exfiltration
- Implementation of personalized algorithm to catch bad behaviour in the network usage and employee's daily activities.
- Implementation of good programming practices for the team to collaborate and optimize the pipelines of data transformation and model deployment, and code versioning.
- Model deployment with MlFlow, Databricks API, Azure Logic Apps
- Programming language mostly used: Python
- IT tool and environment: Databricks, PySpark, Spark SQL, Azure Delta Lake, Azure DevOps.

Position: Data Scientist Intern – Internal Thread   Mar. 2020 – Sept. 2020
Company: Desjardins – Cyber Security Team – Internal Thread
Location: Montreal

- Live email and attachments classification to detect sensitives data using NLP technics

- Create PowerBI dashboard for vulnerabilities detection
- Develop and deploy model to classify sensible documents
- IT tools and environment: Databricks, PySpark, Azure Data Lake

Position: Business Intelligence Analyst   Jun. 2019 – Dec 2019
Company: Desjardins
Location: Montreal
- Use of VBA to automate accounting analysis
- Development of Power BI reports and dashboard for financial analysis
- IT tools and environment: Power BI, DAX, Power Query, VBA Excel

DATA SCIENCE AND APPLICATION DEVELOPMENT PROJECTS

Subject: Deep Reinforcement Learning Agent for trading   Aug 2021 – present
Personal Project
- Deep Q-Network and Dueling Deep Q-Network as agent in a custom environment for stock and crypto trading
- IT Framework: Python, Pytorch, OpenAI Gym

Subject: Full stack project of web app for fake news detection   July 2020 – Aug 2020
Personal Project
- Backend for REST API development: Django
- Machine Learning Model developed: Transformers Bert for text classification
- Frontend: Angular 9 (html, CSS, Typescript)
- Database: PostgreSQL
- IT framework and tools: Python, Pytorch, Onnx, Docker, GitHub, Jenkins

Subject: Bert for Question Answering   Jan 2020 – April 2020
Course: Deep Learning
- Question Answering model development
- Models used: Transformers Bert, Albert and XLNet for question answering
- IT tools and environment: Python, Pytorch, Google Cloud Platform VM with GPU

AWARD AND HONOR

Winner of Newtrax and Ivado Hackathon 2019   Apr. 2019

HOBBIES / INTERESTS

- Reading
- Sport: Soccer