MOHAMED KLEIT, Jr. Eng

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EXPERIENCE

Machine Learning Intern, Caisse de Dépôt et Placement du Québec

May - Nov. 2021

- Conducted sentiment analysis using BERT on Bloomberg earnings calls to predict top performing sectors of industry.
- Implemented topics extraction model to identify and retrieve emerging trends in Bloomberg earnings calls.
- Implemented time series regression and classification models to predict economic indicators and business cycles.
- Implemented scripts to automate data retrieval and preprocessing.
- Performed exploratory and statistical analysis to provide data insights through visualizations.

Al Specialist (part time), Al Launch Lab

May - Aug. 2021

- Gathered requirements from AI start-up clients to define project tasks: time series for crypto and NLP for SDG.
- Managed and guided undergraduate students in implementing machine learning solutions.

Software Engineer II, TEKsystems Global Services

May 2018 - Apr. 2020

- Implemented business rules engine in Java and Drools to automate client's claims insurance processing system.
- Automated deployment process of the engine on client's server using Docker and Kubernetes.
- Provided day-to-day expertise and training to clients through technical demonstrations and presentations.
- Conducted a test-driven-development approach to test system at unit, feature and system level.

Software Engineer Intern, TEKSystems Global Services

May - Sep. 2017

- Designed and implemented single-page web application of digital Kanban board using Angular 2.
- Implemented back-end features such as e-mail sending service and login/sign up in .NET.

EDUCATION

M.Sc. Machine Learning, MILA, Université de Montréal

Sep. 2019 - Dec. 2021

B.Eng. Electrical, Minor Software, McGill University

Sep. 2013 – May 2018

PROJECTS

Voice Activity Detection: SpeechBrain open-source contribution

• Implemented VAD pipeline to detect speech regions in audio signals using PyTorch and SpeechBrain.

Text classification of Reddit posts

• Implemented and tested Naïve Bayes from scratch to classify Reddit posts.

Topic modeling for text documents using Latent Dirichlet Allocation

Implemented and trained LDA model to extract topics from large collections of documents.

Closing robotics reality gap using CycleGAN

• Trained CycleGAN model and generated augmented realistic images based on training images from simulator.

Comparison of generative and discriminative classifiers

• Implemented and compared performance regime of SVM, Random Forest and Naïve Bayes on three datasets.

Ethereum decentralized voting application

Deployed and implemented voting dAPP on Ethereum Blockchain private network.

LEADERSHIP EXPERIENCE

President of the Social Committee, TEKSystems Global Services

Jan. 2019 - Apr. 2020

• Led and managed team of 5+ volunteers by planning and executing all social events with a budget of 20,000 USD.

Varsity Soccer Player, McGill University

Sep. 2013 - Jan. 2018

Committed to 25+ hours of training, games and video sessions. Designated ALL-STAR player in Quebec in 2016.

TECHNICAL SKILLS

Languages: Python, Java, Drools, C, C#, Gherkin, Typescript, MATLAB, OCaml, SQL, HTML, CSS

Technologies: NumPy, Pandas, Scikit-Learn, Hugging Face, PyTorch, AWS, SHAP, Docker, Kubernetes, Angular 2, Hibernate