

MOHAMED KLEIT, JR. ENG.

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EDUCATION

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

Sep. 2019 – Dec. 2021

Courses: Representation Learning, PGM, Fundamentals of ML, Autonomous Vehicles, Data Science, Advanced Projects in ML

B.Eng. Electrical, Minor Software, McGill University

Sep. 2013 – May 2018

EMPLOYMENT

Machine Learning Engineer 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 emerging trends in Bloomberg earnings calls.
- Implemented time series models to predict economic cycle using macroeconomic indicators.

Research Assistant (part time), MILA

Sep. 2021 – Present

- Researched evolutionary algorithms to generate protein sequences for antibiotics discovery.

AI Specialist, AI 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.

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, Javascript/Typescript, MATLAB, OCaml, SQL, HTML, CSS

Technologies: AWS, NumPy, Pandas, Scikit-Learn, PyTorch, Keras, Docker, Kubernetes, Unix, Angular 2, Hibernate, Git, Spring