MOHAMED KLEIT

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EXPERIENCE

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 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.

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.

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, PyTorch, AWS, SHAP, Docker, Kubernetes, Unix, Angular 2, Hibernate, Git, Spring