

ABDELMAJID ESSOFI

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EDUCATION

Gold Medalist of multiple ACM regional programming contests (North Africa)	Language: C++
Mohamed Bin Zayed University of Artificial Intelligence, UAE Research-based MSc in Machine Learning Scholarship: 100% all-covered expenses (Government scholarship)	January 2021 - December 2022 CGPA: 3.95/4.0
Al Akhawayn University in Ifrane, Morocco Bachelor of Science in Computer Science Scholarship: 75% tuition fees (Merit-based scholarship)	September 2015 - December 2019
Beloit College, WI, USA	Exchange Semester September 2017 - December 2017

EXPERIENCE

- Research Assistant at Mohamed Bin Zayed University of AI, UAE** January 2023 - Present
- Primary researcher in a Bayesian optimization project aiming to introduce memoization and extend existing cost-aware approaches to automate the full optimization of multi-stage AI pipelines.
 - Contributing to an ML Systems project to achieve an optimal scheduler for dynamic job-level, as well as cluster-wide resource allocation.
- Quantitative Trading Research Intern at Jump Trading, Singapore** June 2022 - September 2022
- Built a model to predict market price changes within a user-specified number of trades on high frequency trading (HFT) data.
 - Developed a reinforcement learning pipeline to train an agent on generating the maximum P&L by performing trades within a fixed trading period using synthetic as well as real HFT market data.
- Big Data Analytics Intern at Alicante, France** February 2020 - August 2020
- Built a tool for real-time text analysis. The corpora to be analyzed are reports recovered from hospitals. This process returns statistics used to get a global comparative views through data visualization.
- Data Science Intern (Machine Learning) at Leyton, Morocco** June 2019 - September 2019
- Used Python to build a machine learning model that predicts surface sizes for roadside advertisement panels in France. My model improved the company's achieved accuracy by 5%.
- Software Development Intern at Peixoto Atacadista, Brazil** March 2018 - August 2018
- Built software using Angular 2 and Java Spring Boot for the company's Human Resources department to allow online job applications for vacant positions in the company. The software filtered the candidate applications to produce the most fitting candidates according to the given criteria.

PUBLICATIONS & PROJECTS

- Memoization-Aware Bayesian Optimization for AI Pipelines with Unknown Costs**
- Primary author of this project proposing EEIPU, a cost-aware BO acquisition function that leverages caching to automate the end-to-end parameter tuning of ML pipelines. Work submitted to the ICLR 2024 conference.
- Explaining Point Processes by Learning Interpretable Temporal Logic Rules**
- Co-author of this paper, accepted by ICLR 2022. In charge of building the dataset and contributing to the main experiment that led to the project's state-of-the-art results.

AWARDS & ACHIEVEMENTS

Maghreb Champion: ACM Arab Collegiate Programming Contest 2018 (First Place, Language: C++)
Gold Medalist: Moroccan Collegiate Programing Contest 2018 and 2019 (First Place, Language: C++)