



ABDERRAHMANE MOUJAR

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Education

OXFORD University **May. 2024 – Current**
Machine Learning Summer School *Casablanca, Morocco*

Polytechnique X **Feb. 2024 - March. 2024**
Generative AI Winter School *Ben Guerir, Morocco*

University of Hassan II **Sep. 2023 – Current**
Bachelor of Computer Science *Casablanca, Morocco*

Courses: Theory of language, Operational Research, System Desing/UML, Databases(SQL), Networking, DB Administrator, Java, BD Programming and Web Development

Mohammed VI Polytechnic University | 42 Network 1337 **Sep. 2021 – Current**
IT Architect *Ben Guerir, Morocco*

Projects: Docker-1, MegaShell, Philosophers, Services, Game3D, Inception, Webserv, Computorv1, LinearRegression, ...

Faculty of Sciences and Technologies **Sep. 2020 – July 2021**
Bachelor in Applied Mathematics (Dropout) *Mohammadia, Morocco*

Courses: Algebra/Geometry, Topology, Scientific Computing, Advanced Probability, Operational Research, Decision Statistics and Markov Chains.

Faculty of Sciences and Technologies **Sep. 2018 – June 2020**
DEUST in Computer Science and Mathematics *Mohammadia, Morocco*

Courses: Linear algebra, Calculus, Numerical Analysis, Probability, statistics, Databases(SQL), Problem-Solving, and C (Programming Language).

Experience

Dyslexia **December 2023 – Current**
CAIO, AI Research *Remote, Morocco*

- Developed an interactive, themed word-building game for children, utilizing ML for performance analysis and adaptive difficulty adjustment.
- Implemented eye tracking technology using a CNN model to assess reading patterns and optimize word presentation.
- Created a data-driven dashboard for parents and teachers to track progress and provide insights for specialists to improve diagnosis and intervention strategies
- Utilized a model to understand performance differences based on geolocalization and culture, enabling customized, culturally relevant content for diverse learning needs worldwide.

Startup, PayOptima **May 2022 – August 2023**
CEO, AI Software Engineer *Ben Guerir, Morocco*

- Integrated KYC Model (Establish customer identity, Analyze user behavior, Money laundering detection).
- Trained and optimized computer vision models to achieve precise face matching and automatic extraction of personal data from +10 ID documents with a precision rate of 92%
- Building PayOptimum Model (AI-Powered model for fraud detection, and real-time monitoring).

Startup, Seprosms **Jan 2023 – August 2023**
AI Software Engineer *Ben Guerir, Morocco*

- Collaborated with the team to craft a robust model for detecting spam messages.
- Engineered a cutting-edge message generation model to optimize targeted advertising campaign effectiveness.

Startup, Svenix **May 2022 – June 2023**
AI Software Engineer *Ben Guerir, Morocco*

- Led AI integration initiatives for startups, driving automation efforts.
- Led the development and integration of Customer Relationship Management (CRM) systems, leveraging the VTIGER to optimize data management and enhance overall business processes.

Projects

HealthFlow Assistant | *LLM, UI, ChatApp, Zephyr-7b, Agents*

- Designed a healthcare chatbot offering accurate disease identification and drug recommendations for patients and personalized treatment plans.

SafeTalk (Advanced Toxic Comment Detection) | *NLP, Tokenization, Vectorization, Embedding, Bidirectional LSTM*

- Created a multiple deep learning model to detect toxic comments with F1-score of 97 on Jigsaw dataset. Developed a web-based interface that allows users to input comments and receive toxicity scores. Named Entity Recognition NER: (NLP, Tokenization, Bert)
- Developed and fine-tuned a BERT-based model for NER using Hugging Face's Transformers library. Achieving an accuracy of 0.98 and precision of 0.93 and recall of 0.95 and F1 score of 0.94.

Technical Skills

Languages: Python, C++, C, SQL, BashScripting

Technologies: Docker, Socket Programming, Multithreading Programming, Unix Programming.

Frameworks: Selenium, TensorFlow, Pytorch, Scikit-learn, Flask, FastApi, Pyspark, OpenCV

Community work

1337AI

Sep. 2022 – Current

President

- Instructor of Mathematics for Machine Learning and Python.
- Organizing multiple BootCamps in Machine learning and Python programming to help students gain skills in AI.
- Contributing to multiple events in Um6p like X-ibition, JPO ...
- Organizing the first edition of the Hackathon ThinkAI.