

Mohamed El Baha

Data Scientist – AI Researcher

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PROFESSIONAL EXPERIENCE

MICHELIN | DATA SCIENTIST

April 2022 – Now | Clermont-Ferrand, France

- Developing uncertainty quantification methods in predictive machine learning models
Developing model validation processes to take better decisions.

PYTHON - TENSORFLOW - GIT - BAYESIAN MODELS

LIMS | DATA SCIENTIST

May 2021 – September 2021 | Paris, France

- Implemented Machine learning algorithms related to Eye Gaze movement and speech, to predict the score of English tests. Deployed these algorithms via a Python interface. PYTHON - PYQT5 - HMM - CNN - SVMs

ORANO TN | CONSULTANT

September - December 2020 | Montigny-le-bretonneux, France

- Managing a group of 5 engineering students to realize a benchmark on the measurement of the performance of engineering processes. | KPIs

EDUCATION

IMT ATLANTIQUE | M.ENG - MATHEMATICAL AND COMPUTATIONAL ENGINEERING

August 2019 – September 2022 | Brest, France

Courses : Machine learning - Deep learning - Operational research - Optimization - Numerical Methods - Stochastic Dynamic Modeling - Data Science.

UNIVERSITY OF WESTERN BRITTANY | B.Sc PURE MATHEMATICS GPA = 4.0

August 2017 – September 2019 | Brest, France

Highly selective program - Courses : Calculus, Statistics, Complex Analysis, Algebra.

RELEVANT PROJECTS (MORE PROJECTS ON MY PORTFOLIO)

TRANSFORMERS FOR MULTI-ORGAN SEGMENTATION IN ABDOMINAL IMAGING | PYTORCH

Implementing and comparing different Deep Learning model architectures for image semantic segmentation task (Transformers, CNNs, Hybrid Models)

PREDICTION OF EARTH TEMPERATURE USING CLOUD COMPUTING TOOLS | BIGQUERY, GCP

Manipulate large Dataset and apply statistical and Machine Learning methods to predict earth temperature of given coordinates.

TEXT CLASSIFICATION OF BBC NEWS DATASET | TENSORFLOW, NLP, LSTM, PCA, TSNE

Given a text from the news, we implemented models to predict in which topic it belongs (technology, business, sport, entertainment or politics).

SPARSITY AND PATCH FOR HYPERSPECTRAL IMAGE RESTORATION | PYTORCH, AUTOENCODERS

Restore a hyperspectral image using a Learning Based approach.

TRANSFER LEARNING FOR NLP WITH TENSORFLOW HUB USING BERT MODEL | PYTHON, TF

Fine Tune different Models to detect insincere questions from Quora database.

PUBLICATIONS

A System for Automatic Calculation of the Eye-Voice Span, Mohamed El Baha, O. Augereau, S. Kobylanskaya, I. Vasilescu and L. Devillers, Document Analysis System 2022

SKILLS

SOFT

Adaptability • Business Mindset • Team Player • Curious • Rigorous • Storytelling

PROGRAMMING

Python • R • Java • SQL • L^AT_EX

LIBRARIES/Frameworks

Tensorflow • Keras • Pytorch • Pandas • Scikit • XGBoost • Seaborn
Plotly

TOOLS/PLATFORMS

Git • GitLab • VS Code • Docker • Kubernetes

LANGUAGES

FRENCH • Bilingual
ARABIC • Native
ENGLISH • Advanced C1

CERTIFICATIONS

Deep Learning Specialization
DeepLearning.ai

Tensorflow Developer Certificate
Google


GANs Specialization
Coursera

Probabilistic Deep Learning
Imperial College London

INTERESTS

- Sport (Surf, WindSurf)
- Digital Marketing, E-commerce
- Kaggle Competitions.

REFERENCES

Olivier Augereau, AI Researcher
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