Mohamed El Baha

Data Scientist | AI Researcher | Kaggle Competitor

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FORMATION

IMT ATLANTIQUE | M.ENG - MATHEMATICAL AND COMPUTATIONAL ENGINEERING
August 2019 – September 2022 | Brest, France

➔ Courses : Machine learning - Deep learning - Operational research - Optimization - Stochastic modeling - Stochastic Dynamic Models - Data Science.

UNIVERSITY OF WESTERN BRITTANY | B.SC PURE MATHEMATICS
August 2017 – September 2019 | Brest, France

➔ Highly selective program, stochastic / statistics, analysis, algebra, Differential Equations.

PROFESSIONAL EXPERIENCE

MICHELIN | DATA SCIENTIST
April 2022 – Now | Clermont-Ferrand, France

➔ Working on quantifying uncertainty in predictive machine learning models |Uncertainty Quantification - Model Validation - Probabilistic Models.

LIMSI | DATA SCIENTIST
May 2021 – September 2021 | Paris, France

➔ Implemented Machine learning algorithms related to Eye Gaze movement and voice, to predict the score of language tests. Deploy these algorithms via a Python interface.

ORANO TN |
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.

RELEVANT PROJECTS (MORE PROJECTS ON MY PORTFOLIO)

TRANSFORMERS FOR MULTI-ORGAN SEGMENTATION IN ABDOMINAL IMAGING |KERAS
Implementing and comparing different Deep Learning model architectures for image segmentation tasks (Transformers, CNNs, Hybrid Models)

PREDICTION OF EARTH TEMPERATURE USING CLOUD COMPUTING TOOLS |BIGQUERRY, 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 belong (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 |TF BOARD
Fine Tune Models to detect insincere questions.

PUBLICATIONS

[1] A System for Automatic Calculation of the Eye-Voice Span, Mohamed El Baha, O. Augereau, S. Kobylyanskaya, I. Vasilescu and L. Devillers, DAS 2022

SKILLS

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

PROGRAMMING
Python • R • Julia • Java SQL • Matlab • LaTeX

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

- Sports(Surf, WindSurf)
- Digital Marketing, E-commerce
- Machine Learning Competitions.