AYMEN QABEL

MSc MVA ENS Paris Saclay/ CentraleSupélec graduate looking for an Entry-Level Data Science position

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EDUCATION

École Normale Supérieure - University of Paris-Saclay

Master of Science - MVA - Mathematics, Vision, Learning

September 2021 – Present Gif-Sur-Yvette, France

- **Relevant courses**: Convex Optimization and applications in machine learning, computer vision, Kernel methods in ML, Speech Recognition, Graphs, NLP

CentraleSupélec - University of Paris-Saclay

General Engineering/Major in Data Science

September 2018 – October 2021 Gif-Sur-Yvette, France

- **Relevant courses**: Statistics, Probabilities, Machine Learning, Optimization, Deep Learning, NLP, Computer Vision, TimeSeries, Graphical Models, Big Data.

University of Texas at Austin

Cockrell School of Engineering and College of Natural Sciences.

January 2020 – May 2020 Austin TX, USA

- **Relevant courses**: Data Science Principles, Structural properties of PDEs, Probability models with Actuarial Applications.

Lycée d'excellence de Benguerir

Mathematics and Physics (MP)

September 2016 – June 2018 Benguerir, Morocco

- Preparatory years for the competitive examination to the French "Grandes Écoles" for scientific studies.
- Advanced classes in Mathematics and Physics.

EXPERIENCE

DaSciM, LIX, Ecole Polytechnique

Research Internship : Graph nerual networks, Molecules

December 2021 – September 2022

- Presented a poster of my project during the Engineering For Health Conference (E4H) at Ecole Polytechnique 2022.
- Pretrain large scale GNNs on molecular data.
- Finetune the pretrained model and evaluate it on molecular benchmarks.

Amadeus IT Group

Internship : Machine Learning, Big Data, Time Series, Hadoop, Spark

May 2021 – October 2021

- Analyzed travel reservations through machine learning and created a Reservation forecasting model adapted to the COVID-19 period.

Institut Gustave Roussy

Research Internship : NLP, Deep Learning, Transformers

October 2020 – April 2021

- Created "KmemBERT", a Transformers-based model for estimating cancer patients' survival time trained on French medical records.

SKILLS

Python, Pytorch, Keras, Pandas, Matlab, R, Scala, Git

PROJECTS

Automatic Speech Recognition

Deep Learning, ASR, Self-Supervised Learning

April 2022 Gif-Sur-Yvette, France

- Fine tuned Self-Supervised Learning pre-trained models on APR (Automatic Phoneme Recognition) and ASR (Automatic Speech Recognition) in a cross-language setting.

Classification of Lymphocytosis from Blood Cells

Computer Vision, Deep Learning, CNNs

February 2021

- Experimented computer vision architectures (ResNet, EfficentNet, Inception) to deal with multi instance labeling problem of classifying lymphocytosis from blood cells.

Music Genre Classification

Machine Learning

March 2020 Austin TX, USA

- Designed a music classification model that can predict the genre of songs from a 30 second sound clip extracted from within it using supervised and unsupervised learning.

ACHIEVEMENTS

- **1st in Moroccan Scientific Baccalaureate Exam**
- **French Government Scholarship**
- **Top 2% students in Moroccan Engineering schools entry exam (Concours National Commun Ranking 2018)**

LANGUAGES

Arabic: Native Language
French: Bilingual
English: Fluent (TOEFL: 110/120)

EXTRA-CURRICULAR

Boxing Club of CS

Vice president of the Boxing Club of CentraleSupélec

- Organization of CS WARRIOR, an inter-university boxing competition