

Ialifinaritra RAKOTONIAINA

DATA SCIENTIST

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SUMMARY

As a junior Data Scientist, I am passionate about cutting edge technologies and willing to learn new Machine Learning and Deep Learning techniques, and applying it in industrial and professional context. I am looking for new challenging missions in these areas.

EXPERIENCES

IDEMIA Identity & Security

Courbevoie, France

DEEP LEARNING RESEARCH INTERN

July 2020 - December 2020

- Implemented from research papers state of the art of semi-supervised learning methods.
- Benchmarked algorithms performance on specific task.
- Developed a semi-supervised learning framework for face detection task and applied it on NIR Images
- Optimized inference and post-process pipeline.
- *Techniques* : Virtual Adversarial Training, Unsupervised Data Augmentation, Tensorflow

AXYS Consultant

Paris, France

NLP RESEARCH PROJECT

October 2019 - Juin 2020

- Research project on meeting summarization from speech recognition system transcripts.
- Implemented different summarization methods based on sentences embedding computed with transformer architecture.
- Developed python summarizer module with «fit - predict» format in order to be exploited easily by the users.
- *Techniques* : Transformer, CamemBERT, FlauBERT, Pytorch

DOLD Industries Limited

Zejtun, Malta

RESEARCH AND DEVELOPMENT ENGINEER INTERN

May 2019 - July 2019

- Created data management and storage platform (characteristics, location, maintenance) for machines used in the factory.
- Developed numeric documentation system associated with all produced parts.

SNCF Company

Paris, France

METHODS ENGINEER APPRENTICE

2016 - 2019

- Led a project of digitization of compliance sheets and maintenance documents. 95% of documents used are in numeric version.
- Developed automatic tools of data analysis and performance dashboard : collecting production data, displaying time, related issues and enhancement of each operation.
- Conducted data analysis and worked with key operations stakeholders to implement changes in order to enhance work conditions and increase productivity.

PROJECTS

GENERATING JOHANN SEBASTIAN BACH'S MUSIC SEQUENCES

- Training an language model of the Bach's music and generating new sequences.
- *Techniques* : LSTM Many-to-Many, One-to-Many, Keras

FUSION OF ALGORITHMS FOR FACE RECOGNITION

- Building a fusion of algorithms to construct the best suited solution for comparison of a pair of images.
- *Techniques* : XGBOOST, LightGBM

TECHNICAL SKILLS

DATA SCIENCE SKILLS :

- Machine Learning (regression, classification, clustering, timeseries,...) using **Sklearn, Pandas, Numpy, Scipy, SHAP, Seaborn**
- Deep Learning frameworks : **Tensorflow, Keras, Pytorch**
- Computer Vision: **OpenCV, PIL, imgaug**
- Natural Language Processing: **NLTK, Spacy, Transformers**

COMPUTER SCIENCE SKILLS :

- Programming Languages : **Python, Scala, SQL, JavaScript**
- Dev-ops : **Docker, Git**
- Databases : **MySQL, MongoDB, Cassandra, ElasticSearch**

EDUCATION

Telecom Paris



MSC IN APPLIED MATHEMATICS AND DATA SCIENCE

Paris, France

2019 - 2020

University of Technology of Compiègne



MASTER'S DEGREE IN INDUSTRIAL ENGINEERING

Compiègne, France

2016 - 2019