

Marco Boucas

Master of Science in Engineering Student & Data Scientist

INFORMATION

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EDUCATION

DIGITAL TECH YEAR

Feb. 2020 - Jun. 2020 | Paris Digital Lab

- Admitted to the one-year digital technology specialisation program.
- One semester of agile prototyping at the ParisDigitalLab, developing real-world projects for French Organizations.
- One semester international work experience as an intern in a startup or large company.

MASTER OF ENGINEERING AT CENTRALESUPÉLEC

Sept. 2018 - Present | CentraleSupélec

CentraleSupélec is an elite Engineering School, member of France's Grandes Ecoles, based on a highly selective recruitment process.

INTENSIVE PREPARATORY COURSES

2016-2018 | Saint-Louis

Intensive courses in Maths, Physics, Engineering Science for the french Grandes Ecoles.

SKILLS

Languages

Python • Javascript/Typescript • HTML/CSS

DataScience

Numpy • Pandas • Scikit-Learn •
Keras/Tensorflow • NLTK • NLP •
ComputerVision

Web

NodeJs • Express • Sequelize • Certbot •
NGINX/Apache • ReactJs • Socket.io

Working Tools

Linux • Windows • Git • Latex

Innovative Methodologies

Design Thinking • Scrum Methodology

🇫🇷 French Native
🇬🇧 English Fluent
🇩🇪 German Good Notions
🇪🇸 Spanish Notions

EXPERIENCES & PROJECTS

MACHINE LEARNING INTERN | 73STRINGS

Sept 2020 - Feb 2021 | Paris

73 Strings has been set up to fuse the best in technology with a deep understanding of critical insights to make capital more efficient.

Development of **NLP algorithms and models for financial texts**. Use of Topic Modeling, Sentiment Analysis, Classification algorithms, Abstractive Summarization Models to retrieve information from long texts.

GPT-3 - Transformers (GPT2, DistilBert, PEGASUS) - PyTorch - Scikit-Learn - Pandas - REST API

DATATHON NLP | BNP CIB & BIVWAK!

Nov 2020 | Paris

*A Data Responsible Challenge, with the objective of assessing software suppliers according to 3 themes: **ethics, security and sustainability**.*

With a team of students and members of BNP Paribas, we imagined a system to assess software suppliers and ended up in 2nd place.

DATA SCIENTIST & AGILE PROTOTYPER | PARIS DIGITAL LAB

2018-2019 | Paris

ParisDigitalLab is an open innovation training device to enable students to become proficient in various technologies through the realization of real-world projects, using scrum methodology.

• Recommender System for BNP Paribas Asset Management

BNP Paribas Asset Management is the dedicated, autonomous asset management business of BNP Paribas Group

We created a recommender system that finds the best blog articles and internal resources for a given product. Using State-of-the-Art models such as DistilBERT, finBERT and Longformer we were able to summarize articles for the Sales, making easier the task of finding relevant documents.

Transformers (DistilBERT, finBERT) - PyTorch - Scikit-Learn

• Emotions Recognition in Videos for Flashbrand

Flashbrand is an innovative startup that aims to revolutionize feedbacks and HR methods using AI and an employee centred approach.

Creation of a **software capturing video in real time** from the user. Use of Machine Learning algorithms to classify emotions in a coach bot.

NodeJs - Microsoft Azure - Transformers (DistilBERT) - VueJs

• Coefficient Computation for RunWaiz Safran

RunWaiz is the winner of the "We Love Intrapreneurs" program of Safran, it intends to create an airport decision making tool based on runwaiz conditions.

Creation of a **Machine Learning pipeline**. Search for the best algorithm to evaluate the runway condition based on sensors outputs.

Scikit-Learn - Keras - Numpy - Pandas

DATA SCIENTIST STUDENT | CENTRALESUPÉLEC

2018-2019 | Paris

CentraleSupélec courses require the completion of projects to validate the skills acquired during the studies.

Courses : Big Data, ML, Computer Science, Statistics, Distributed Calculus

• Clustering pedagogical platform

Creation of a web platform allowing CentraleSupélec students to easily learn **Clustering algorithms**. Development of exercices and notebooks tests

Django - Jupyter - K-Means - DBSCAN - Hierarchical Clustering