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 recruitement 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 retrive 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