

Léo BOURGNOUNESQUE

# Data Scientist



## EDUCATION

2020

**Applied Data Science with Python + TensorFlow Developer – Coursera**  
(University of Michigan/DeepLearning.AI – MOOC – Coursera with certification)

- Introduction to Data Science: Pandas, NumPy, SciPy
- Applied Plotting, Charting & Data representation: Matplotlib
- Applied Machine Learning: Scikit-Learn
- Applied Text Mining (NLP): NLTK
- Introduction to TensorFlow for AI, ML and DL: DNN, CNN
- Convolutional Neural Networks in TensorFlow



2019 – 2020

**Advanced Master: Aerospace Project Management – ISAE-SUPAERO**  
(ISAE-SUPAERO/ENAC/French Air Force – Toulouse/Salon de Provence, France)

- ISAE-SUPAERO: project management – tools and methods
- ENAC: civil and military aerospace environment – specificities
- French Air Force: economical and financial aspects of aeronautical project



2014 – 2019

**Generalist Engineer – ICAM**

(Institut Catholique d'Arts et Métiers – Toulouse, France)

- Preparatory class PTSI + Engineering cycle: informatics, mathematics, mechanics, material science, energetics, industrial automation, automatic control systems
- Database project: Website development using HTML, PHP and MySQL



## WORK EXPERIENCE

June – September  
2020

**Data Scientist / Configuration Management Improvement (internship) – Test Department**

(Airbus – Toulouse, France)

- Data Scientist: Anomaly detection in flight test data. Data collection, Data Cleaning, EDA, Model to differentiate OK and KO sensors. Stack: Python, Pandas, NumPy, Matplotlib (Seaborn), Sklearn (Pipelines, StandardScaler, PCA, K-Mean)
- Configuration Management for Lab Tests Improvement: Analysis of existing tools, Needs and requirements identification, Proposal for improvements (POC)



February –  
August 2019

**Mechanical Engineer (internship) – Systems Installation Department**

(Altran – Blagnac, France)

- Optimization of installations located in the A350 cockpit
- Meshing and mechanical calculations of A350 brackets
- Creation of automation in VBA language
- Writing scientific reports



June – July  
2016



**Assistant Engineer (internship) – Incident Analysis Department**

(SII - Société pour l'Informatique Industrielle – Toulouse, France)

- Development of templates for flight data
- Analysis of flight data

Abroad experiences:

**Experiment in Australia and New-Zealand**

- Discovering new cultures
- Autonomous travel
- Various jobs (gardening, handling, etc.)

Seasonal jobs:

**Staff canteen worker / Maintenance of green areas**

(CE Airbus Operations SAS – Toulouse, France)

June – September  
2017

Summer 2015,  
2016 et 2018

## CONTACT

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France

National mobility (Paris,  
Toulouse, Lyon, Bordeaux)  
23 years old  
Driving license (car + scooter)

## SKILLS

### Technical

Project management  
Organizing meetings  
Agile methods

### Computer

Microsoft Office (Word, Excel,  
Power Point, MS Project), VBA  
**Python**, knowledge in C++ & Java  
**Data Science**: Pandas, NumPy,  
Matplotlib, Scikit-Learn, NLTK,  
TensorFlow, Keras  
HTML, PHP, **SQL**, **Flask**, **Django**  
Jupyter, Colab, PyCharm, Git  
Catia V5, Nastran, HyperMesh

## LANGUAGES

**French**: native speaker

**English**: B2 level:  
TOEIC test (870)

## HOBBIES & INTERESTS

Tennis in competition (15/5)

Rugby, padel and indoor soccer

Piano

Academic support:

- Lessons for students failing academically (volunteer)
- Individual lessons