

Juan José Cervilla

DATA ANALYST

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Aeronautical Engineer reborn as a **Data Analyst**, passionate for new technologies, data analysis and automation. With a strong foundation in engineering principles, I have quickly adapted to the complexities of working with vast datasets, mastering the latest tools and adapting my skills to the always evolving **Big Data** field. Committed to continuous learning and staying up-to-date with industry trends, I am enthusiastic about leveraging data to unlock hidden opportunities and optimize business processes.

Education

Ecole Centrale Nantes - ECN

Nantes, France

DOUBLE DIPLÔME D'INGENIEUR

Sept. 2018 - Sept. 2020

- Specialisations in **Mathematics and Applications**
- Statistical Learning, Machine learning, Time series, Data mining, Probability, Statistics, Stochastic processes
- **Python** | **Matlab** | **R**

Universidad Politécnica de Madrid - UPM

Madrid, Spain

B.S. + M.S. IN AERONAUTICAL ENGINEERING

Sept. 2013 - Août 2020

- Fluid Mechanics, Optimization Techniques, Propulsion Systems, Algebra, Programming, Flight Physics, Thermodynamic
- **Fortran** | **Matlab**

Work Experience

AIRBUS on behalf of EXPLEO GROUP

Toulouse, France

FLIGHT TEST DATA ANALYST - PERMANENT CONTRACT

Sept. 2021 - Today

- Preparation, follow-up and analysis of **flight test campaigns** in 1VVL team at Airbus
- Flights tracking in the **telemetry room** and preparing screens for **data visualization** in real time
- Data management improvement: update of existing tools via **APIs** and a **Data Lake**
- Development of a **web application** using **Dash-Plotly** to stock the validity sensors in each of the campaigns and deployed on **Airbus Server**
- **Dashboards** for clients using **Spotfire** to analyze and visualize the most relevant data
- Development of **unsupervised algorithms (K-Means, HDBSCAN...)** for the detection of sensors with inconsistent values
- Tasks automation in the **GSuite** environment using **Google API** and **Python**
- **Tools** → **Python**: Jupyter Notebook · Streamlit · Sklearn · Dash-Plotly · JupyterLab | **Sqlite** | **GitHub** | **Spotfire**

ALTEN

Toulouse, France

DATA SCIENTIST

July 2020 - Feb 2021

- Optimization of airline schedules according to different criterias: **linear optimization model** using **GLPSOL optimizer** and **heuristic constraint-based optimization model** evaluated by a cost function
- Interaction with Front-End engineers to apply the optimizer as a Back-End for the **web application**
- **Tools** → **Python**: GLPK command-line solver · OOP (Object Oriented Programming) | **SQL** | **Microsoft Excel**

POMA

Grenoble, France

AERODYNAMIC ENGINEER INTERNSHIP

Feb 2019 - Aug. 2019

- **CFD aerodynamic analysis** with STAR-CCM+ for the vehicles of the company
- Comparison between wind tunnel and CFD data using **linear and logistic regression algorithms**
- **Tools** → **Matlab** | **Microsoft Excel** | **VBA** | **STAR-CCM+**

Airbus Defense and Space

Madrid, Spain

AEROSPACE ENGINEER INTERNSHIP

May 2017 - July 2017

- Embedded software for **Air Refueling Platform A330 MRTT** (Multi-Role Transport Tanker)

IT Skills

Programming Python, Fortran

IA, Big Data Dash Plotly, Pandas, SQL, PySpark, Sklearn

Specific Software Qlik, Spotfire, Github, Matlab, LaTeX, Agile methodology

Languages

Spanish Mother tongue

French Fluent - Niveau C1 - TFI

English Fluent - Niveau C1 - IELTS

Personal Projects

Monthly Expenses Dashboard Dash Plotly · PostgreSQL · Python · CSS

Home Recipes Web Application Django · Python

Website Portfolio React · HTML · CSS

Interests

Sports High level training basketball for 10 years

Nature Hiking, Running, Cycling

Reading Economy, Philosophy, History