Mateus DE ALENCAR MOURA SANTOS

Double degree student in Aerospace Engineering and Energetics and Propulsion + Master in Energy

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Goal: 6-month end-of-study internship in data analysis

SKILLS

- Python, SQL, Power BI, Tableau
- Microsoft Office Pack
- MATLAB, C, Fortran
- ANSYS: Static Structural, Fluent et CFD

SOFT SKILLS

- Adaptability
- Curiosity
- Autonomous
- Team spirit
- Hard worker

LANGUAGES

- **Portuguese:** mother tongue
- **English:** C1 (TOEIC 990/990)
- **French:** B2/C1

EXPERIENCES AND PROJECTS

Data Analyst Project : Top Music Genres by Countries | Summer 2023

- Python Pandas and Tableau
- Data manipulation of a Kaggle dataset with Python Pandas
- Data visualization with Tableau software

Data Analyst Project : SNCF Lost and Found Items | Summer 2023

- SQL and Power BI
- Use of SQL to explore and manipulate two datasets of french railway company SNCF
- Use of Power BI to visualize and manipulation of data with PowerQuery

Data Analyst Project : Housing in Paris | Summer 2023

- Python and Power BI
- Use of the BeautifulSoup package to extract information about Paris apartments from the site BienIci (WebScraping)
- Exploration and manipulation of data with pandas
- Data visualization with Power BI

Internship | Groupe de Physique des Matériaux Laboratory

Saint Étienne du Rouvray, 76800 | May - Sept. 2022

- Study of the mechanical behavior of a multidirectional composite laminate
- Analysis and visualization of high temperature fatigue experimental data with Python
- Study of the behavior under Traction-Traction fatigue

Project INSA Entreprise

Partnership with TotalEnergies | Jan. - Apr. 2022

- Study of heat exchangers operating with supercritical CO2: modeling and numerical simulations
- Meshing, numeric schemes, Linux, post-treatment
- Manipulation of the results with Python

EDUCATION

Energetics and Propulsion engineering diploma + Master Energy – 5th year

INSA Rouen | Rouen, France | January 2022 - Today

- Turbulence Modeling / Turboreactors / Internal Combustion Engine / Electric Propulsion
- Advanced Combustion / Atomization and Sprays / Metrology

Aerospace Engineering - 5th year

University of Brasília | Brasília, Brazil | March 2017 - Today

- Materials / Aerodynamics / Gas Dynamics / Heat Transfer
- Aerodynamic CFD study of the profile NACA 2418
- Theoretical study: Air inlet and nozzle of a supersonic aircraft engine with MATLAB and ANSYS Fluent

HOBBIES

- Traveling
- Museums
- Movie theater
- Music (guitar)