# Daniel JORGE DEUTSCH

# Data Scientist | ML Engineer

Paris, France 

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**2022** 

**=** 2020

**2019** 

### **EDUCATION**

# Engineering Diploma - France

Télécom Paris - Institut Polytechnique de Paris

Specialization: Artificial Intelligence and Quantitative Economics.

**Master 2 Finance Technology Data** 

**i** 2021 - 2022

Paris 1 Panthéon-Sorbonne

Specialization: Machine Learning, Econometrics and Risk Management.

**Engineering Diploma - Brazil** 

**i** 2017 - 2022

Escola Politécnica - Universidade de São Paulo

Specialization: Automation and Control.

### **WORK EXPERIENCE**

# **Data Scientist (Freelancer)**

Gravite

**M**ay 2023 - Jun 2023

Paris, Fr

- Deployed a multithreaded NLP pipeline to effectively clean, process, enhance, and analyze customer feedback data.
- Applied topic clustering algorithms on feedback embeddings.
- Integrated the GPT-3.5 model into the clustering stage to improve the understanding of pain points.

## **Data Scientist (Intern)**

Kaiko

■ Sep 2021 - Sep 2022■ Paris, Fr

- Implemented a complex neural network using PyTorch to conduct a sentiment analysis for a research on the effects of social media on the crypto market.
- R&D on machine and deep learning algorithms to swiftly identify anomalies in live market data.
- Employed PySpark to process and analyze crypto market data.

# Data Engineer (Intern)

**BTG Pactual** 

**b** Dec 2019 - Aug 2020

São Paulo, Br

- Developed a Python-based serverless framework on AWS to monitor data flow, ensuring real-time feedback on data integrity.
- Leveraged the Airflow framework to orchestrate the usage of EMR clusters, automating PySpark scripts execution, ensuring efficient data flow.
- Created a CI/CD pipeline for deploying Airflow DAGs on an EC2 instance, enabling faster and more reliable updates.

#### **Tech Leader**

**i** Apr 2017 - Dec 2019

Poli Júnior

São Paulo, Br

 Managed a team of developers throughout the entire lifecycle of a mobile application, from initial concept to final delivery.

## **RELEVANT PROJECTS**

[2022] Study of the Effects of Social Media Bots on the Crypto Market Sentiment Analysis, Bot Detection, Deep Learning, Unsupervised Learning.

[2021] Inspection of the Influence of User Information on Amazon's Product Recommendations

Data Scraping, Cookies Manipulation, Statistical Analysis.

[2021] Analysis of the Economic Incentive of False Reviews of Parisian Restaurants on Yelp

Data Scraping, NLP, Sentiment Analysis, Regression Analysis.

#### **CERTIFICATIONS**

Foundations of Project Management

Google | Coursera

Technology and Innovation Strategy

Mines ParisTech

Cryptofinance

Fundação Getúlio Vargas (FGV)

## **ACHIEVEMENTS**

Master Thesis Competition, 2022
1st place

**BTG Pactual Code Challenge**, 2019 1st place

Brazilian Robotics Olympiad, 2016 Silver medal

Kangaroo Math Olympiad, 2016 Silver medal

National Science Olympiad, 2016
Honor mention

### **LANGUAGES**

Portuguese Native
English Fluent (C2)
French Fluent (C1)
Spanish Intermediary (B2)

### **VOLUNTARY WORK**

Association Amigos da Poli Apr 2019 - Dec 2019 Assisted in the development and implementation of capital raising strategies for the financing of engineering projects.

# **SKILLS**

## **Programming**

Python SQL C++

### Frameworks

Pandas NumPy PyTorch Keras TensorFlow
Scikit Learn Hugging Face Git AWS GCP
PySpark Airflow

### **Topics of Interest / Experience**

Statistics Natural Language Processing (NLP)

Computer Vision Deep Learning Data Mining

Machine Learning Data Visualization

#### Soft Skills

 Communication
 Organization
 Teamwork

 Autonomy
 Creativity
 Problem-Solving