

DANIEL J. DEUTSCH, M.Sc

Data Scientist & ML Engineer

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Passionate about learning and mastering AI concepts, with a demonstrated ability to navigate through technical and complex fields. Highly proficient in Python, skilled in writing robust and scalable machine learning systems.

EDUCATION

Master of Science | Finance, Technology & Data, Université Panthéon-Sorbonne Sep 2021 - Sep 2022
Diplôme d'Ingénieur | Computer Science, Télécom Paris - Institut Polytechnique de Paris Aug 2020 - Sep 2022
Diplôme d'Ingénieur & Bachelor's | Electrical Engineering, Escola Politécnica - Universidade de São Paulo Jan 2017 - Mar 2023

WORK EXPERIENCE

Data Scientist · VO2 Group · Full-time · Paris, FR Sep 2023 - Sep 2024

- Developed a multi-agent question-answering system using LangChain, improving response accuracy and efficiency through optimised prompt engineering and data-retrieval.
- Engineered a multimodal neural network leveraging transformer architecture for text-conditioned generation tasks.
- Utilized Machine Learning algorithms to model and analyze datasets, improving predictive capabilities and driving actionable insights for business applications.
- Conducted ongoing research on latest AI publications, anticipating trends and assessing applicability to internal projects.
- Effectively synthesized & communicated AI concepts and project results to cross-functional teams, facilitating collaboration and ensuring alignment on project goals and outcomes.

ML Engineer · Gravite.io · Contract · Paris, FR May 2023 - Sep 2023

- Built and maintained an end-to-end ML pipeline with MLOps best practices, ensuring seamless model deployment, monitoring, and continuous improvement in production.
- Developed an NLP algorithm to cluster customer feedback by topic, identifying KPIs & pain points for data-driven decisions.
- Leveraged LLMs to enhance operational performance by automating text analysis tasks, improving efficiency in extracting insights from unstructured data.

Data Scientist · Kaiko · Intern · Paris, FR Sep 2021 - Sep 2022

- Applied anomaly detection algorithms on trading data, improving risk management strategies and market surveillance.
- Deployed a PySpark pipeline on Hadoop to efficiently process and analyze large volumes of historical market data.
- Engineered and trained a deep learning model for sentiment analysis on 6M+ social media posts, achieving strong classification performance and providing valuable insights into social media's market impact.

Data Engineer · BTG Pactual · Intern · São Paulo, BR Dec 2019 - Aug 2020

- Designed a scalable Airflow architecture to orchestrate the use of virtual machines, improving data flow tracking while reducing cloud infrastructure costs.
- Architected a serverless framework to monitor the ingestion, processing, and enrichment of trading data, ensuring near real-time feedback on data integrity.
- Implemented a CI/CD pipeline to automate the deployment of Airflow DAGs, facilitating data flow updates.

SKILLS

Programming Python, C/C++, SQL.
Technical Stack PyTorch, Lightning, Transformers, Pandas, NumPy, Scikit-Learn, PySpark, LangChain, MLflow, Jupyter, TensorFlow, Git, Docker, GCP, AWS.
Languages Portuguese (native), English (fluent - C2), French (fluent - C1), Spanish (intermediate - B2).

PROJECTS

Effects of Social Media Bots on the Crypto Market ([verify](#))
NLP, Sentiment Analysis, Anomaly Detection, Deep Learning, Mathematical Modeling, Predictive Modeling.

How User Information Fuels Amazon's Product Recommendations ([verify](#))
Recommender Systems, Feature Importance, Web Scraping, Statistical Analysis, Data Visualization.

CERTIFICATES

Structuring Machine Learning Projects, DeepLearning.AI ([verify](#)) Jan 2024
Improving Deep Neural Networks, DeepLearning.AI ([verify](#)) Nov 2023
Neural Networks and Deep Learning, DeepLearning.AI ([verify](#)) Oct 2023