

Manel Yala

DATA SCIENTIST - AI ENGINEER ·

Paris, France

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I recently graduated from one of France's top-tier program in Artificial Intelligence, with successful experiences across diverse sectors including banking, retail, and academic research. Autonomous, detail-oriented, and impact-driven, I am capable of leading end-to-end projects and applying my skills to create tangible value for organizations.

Skills

Python ★★★★★
SQL, NoSQL ★★★★★☆
MLFlow, Docker ★★★★★☆
Git, Github ★★★★★☆

Languages

French ★★★★★★
English ★★★★★☆

Experiences

Groupe Les Mousquetaires

Châtillon, France

DATA SCIENTIST – MASTER'S THESIS INTERNSHIP

Apr. 2025 – Sep. 2025

- **Project** : Cashflow forecasting using Deep Learning.
- Collaborated with treasurers to gather business requirements, and regularly presented implemented solutions' results.
- Performed analysis, cleaning, and preprocessing of mono-flow and multi-flow financial time series.
- Comparative exploration of deep learning architectures and forecasting methodologies within a research-driven approach.
- Developed, trained, evaluated, and optimized both short- and long-term forecasting models.
- **Results** : Achieved a 30% reduction in forecasting error compared to baseline models, optimizing €200M in treasury over 6 months.
- **Technical stack** : Python, PyTorch, Azure, Databricks, MLFlow

LATMOS – CNRS x Sorbonne University

Guyancourt, France

AI RESEARCH ASSISTANT – INTERNSHIP

Apr. 2024 – Sep. 2024 / Feb. 2025 – Mar. 2025

- **Project**: Development of deep learning models for rainfall forecasting using large-scale spatio-temporal satellite data.
- Designed and trained convolutional neural networks on a high-performance GPU cluster, handling large multi-source datasets.
- Performed preprocessing, normalization, and structuring of satellite data, including temporal and spatial resampling.
- **Results**: Produced the first forecasts consistent with Météo-France predictions over multiple days.
- **Technical stack** : Python, PyTorch, Linux, HAL GPU cluster, Git.

BPCE Group – Natixis

Algiers, Algeria

DATA ANALYST – INTERNSHIP

Aug. 2023 – Sep. 2023

- Conducted business needs analysis and performed statistical studies to support decision-making.
- Managed BI projects, designed and deployed BI solutions for reporting and contributed to data governance efforts.
- **Technical stack** : Python, SQL, Oracle BI, Brevo.

Pitch Events

Algiers, Algeria

BI ANALYST & MERN STACK DEVELOPER (PART-TIME)

Nov. 2022 – May 2023

- Designed and developed a cross-platform solution for event access management and participant tracking during client-organized events.
- Created and presented analytical reports based on data collected through the app, providing recommendations to optimize future event planning.
- **Environnement technique** : Power BI, MongoDB, React, Github, JavaScript.

Djezzy Telecom

Algiers, Algeria

DATA SCIENTIST – BACHELOR'S INTERNSHIP

Jan. 2022 – Jun. 2022

- **Project** : Developed fraud detection models using Big Data from telecom user activity.
- Performed data analysis, feature engineering, and built a labeled dataset to identify fraudulent behavior.
- Trained and evaluated three supervised machine learning and deep learning models.
- Built a dashboard and integrated an automated blacklisting tool.
- **Results** : +20% fraudsters detected, -38% false positives. Enriched dataset reused for churn prediction.
- **Environnement technique** : Python, Tensorflow, Pytorch, SQL, Django

Education

Paris-Saclay University – Institut Polytechnique de Paris	Paris, France
MASTER’S DEGREE – DATA SCIENCE AND INFORMATION PROCESSING (TRIED)	Sep. 2024 – Sep. 2025
• Ranked among the Top 10 Best Data Science programs in France, focused on statistical analysis, machine learning, and deep learning. Key modules: Machine Learning & Deep Learning, Advanced Statistics, Data Analysis, Databases & Big Data.	
University of Science and Technology Houari Boumediene	Algiers, Algeria
BACHELOR’S DEGREE – COMPUTER SCIENCE	Sep. 2019 – Jul. 2022
• Key modules: Advanced Algorithms, Probability & Statistics, Machine Learning, Object-Oriented Programming, Python, Databases.	

Technologies

Python for AI	PyTorch, TensorFlow, Scikit-learn, NLTK, OpenCV, LangChain, NumPy, Pandas, Streamlit
Databases	SQL, NoSQL (MongoDB, Firebase), ChromaDB
Big Data	Spark
Data Visualization	Power BI
Cloud & Data Platforms	Microsoft Azure, Databricks
MLOps	MLflow, Docker
Operating Systems	Windows, Linux
Version Control	Git, GitHub
Other Languages	C, Java, C#, C++, JavaScript
Web & Mobile Development	Django, PyQt, React, Node.js, HTML, CSS, PHP

Data Science Skills

Data Processing	Collection, cleaning, preprocessing, analysis and visualization
Machine Learning	Regression, classification, clustering, dimensionality reduction, feature selection
Computer Vision	Detection, Classification, Segmentation
Neural Networks	CNN, RNN, GANs, Transformers
Natural Language Processing	Text classification, Generation
Deep Learning	CNN, RNN, Transformers, GANs; fine-tuning
Reinforcement Learning	QLearning
Tools and Best Practices	Experiment tracking (MLflow, WandB), cross-validation, model evaluation

Volunteering & Awards

2023 - 2024 Winner of the "Best Young Company" Award , Young Entrepreneur League	Doha, Qatar
2019 - 2024 Head of Department – Logistics & Event Management IT Member , Micro Club USTHB	Algiers, Algeria