NABIGH MED

23 years old | data science Engineer Graduate

Previously Data Scientist and IA engineer at UM6 Polytechnic

@ nabighmed@outlook.fr +33 7 45 58 44 02 Paris, France

EDUCATION

University of Paris Descartes (Paris Cite)

Master's degree, in Machine Learning & Data Science

sep 2023 - sep 2024 Paris, France

NATIONAL INSTITUTE OF STATISTICS AND APPLIED ECONOMICS (INSEA)

DATA SCIENCE - ENGINEERING degree (BAC +5)

sep 2020 - sep 2023 Rabat,Morocco

WORK EXPERIENCE

Data Scientist Intern

BNP Paribas (EAD)

May 2024 – October 2024 Paris, France

Conducted in-depth analysis and estimation of customer lifetime value (CLV) for professional clients. Developed predictive models to assess and optimize client value over time. Utilized advanced statistical techniques and machine learning algorithms to identify key drivers of CLV. Implemented and refined data pipelines for efficient processing of large datasets. Provided actionable insights and recommendations to enhance client engagement strategies and business decision-making. Gained hands-on experience with Dataiku, SQL, Python, and SAS.

- Tools: Dataiku, SQL, Python, SAS
- Skills: CLV Estimation, Predictive Modeling, Data Analysis

Data Scientist - AI Engineer (R&D Projects) intern

the College Of Computing (UM6P),

feb 2023 – aug 2023 Rabat,Morocco

Led a reinforcement learning project for traffic congestion, reducing peak-hour traffic by 25%. Developed systemic approaches from single to multi-agent systems and multiple architectures (centralized and decentralized), improving traffic flow efficiency by 40% in high-density scenarios.

- Agile practices: Reinforcement learning methodologies, iterative development.
- Tools: rllib, AI modeling, Systemic approach algorithms, Python, Multi-agent systems

Data Scientist - Data Analyst Intern

ANDZOA

jun 2022 – aug 2022 Rabat,Morocco

Developed a data pipeline enhancing data quality by 30%. Implemented performance indicators and dashboards (Power BI, DASH, StreamLit), optimizing strategy execution tracking by 15%. Applied machine learning to identify success and failure factors, boosting strategic efficiency by 20%.

- Agile practices: Data-driven decision making, continuous integration Test driven development
- Tools: Power BI, DASH, StreamLit, Python, SQL, Machine Learning algorithms

ACHIEVEMENTS

+13th Place in National Elimination for IMO Math Representation, Morocco (2018)
+1st Place in Annual AI Hackathon at University , INSEA Rabat

PERSONAL PROJECTS

Text Clustering Enhancement with LLMs: Explored **text clustering** with **Large Language Models (LLMs)**, achieving superior clustering outcomes. Experimented with advanced models to refine clustering techniques, utilizing **Python and MLflow** for model development, training, and evaluation.
Technologies/Skills: LLMs, Data Science Techniques,Natural Language Processing, , PyTorch, Hugging Face, Federated Learning.
Fraud Detection System Enhancement: Led the development of a fraud detection system utilizing **Python, Scala, and PySpark** on **Azure Databricks**. Implemented **machine learning algorithms**, significantly improving fraud detection accuracy by integrating **MLflow** for model management and deployment. Achieved a high **F1 score** through ensemble methods, demonstrating the system's effectiveness in reducing false positives in unbalanced datasets.
Technologies/Skills: Machine Learning, Python, Scala, PySpark, Azure Databricks, MLflow, Ensemble Methods.
EcoTend-Analytics Dashboard: Developed an **ETL process** and **Power BI dashboard** for economic data analysis. Utilized **NLP** techniques with **NLTK and Spacy** to extract insights from economic narratives, enhancing data-driven decision-making. Implemented in **Azure** cloud environment, optimizing data aggregation and visualization processes.
Technologies/Skills: NLP, NLTK, Spacy, Python, Azure, Power BI, ETL Processes.
Personal AI Assistant with Voice Recognition: Engineered a voice-activated AI assistant, integrating **voice recognition** and **AI algorithms** in Python. Enabled personalized services, including weather updates and web searches, to improve user experience and efficiency. Utilized **Azure** services for cloud-based deployment and scalability.
Technologies/Skills: AI, Voice Recognition, Python, Azure, User Experience Enhancement.
Advanced Census Data Modeling: Applied **data analysis** and **machine learning models** (Random Forest, XGBoost) to census datasets, significantly improving categorization accuracy. Utilized **Azure Databricks** and **PySpark** for data processing and model training, demonstrating predictive accuracy with high F1 scores.
Technologies/Skills: Data Analysis, Machine Learning, Random Forest, XGBoost, Python, PySpark, Azure Databricks.
Deep Learning for EMNIST Character Recognition: Increased handwritten character recognition accuracy using **GANs and Autoencoders** for data augmentation. Demonstrated deep learning application in improving model robustness, leveraging **Python and TensorFlow** for development and **MLflow** for model tracking and versioning.
Technologies/Skills: Deep Learning, GANs, Autoencoders, Python, TensorFlow, MLflow.

TECHNICAL SKILLS

Programming Python, Java, C/C++, Scala, R, SAS **Machine Learning & AI** Pytorch, Tensorflow, Keras, Scikit-learn, MLflow, BERT, Reinforcement Learning, generative ai, ML **Data Engineering & Analysis** Spark / Pyspark, Apache Airflow, SQL/No-SQL Databases, EDA, Predictive Modeling, Git **Data Visualization** Seaborn, Plotly, Power BI, GeoPandas **Cloud & DevOps** AWS, Docker, Apache Airflow, MLOps **Computer Vision & NLP** OpenCV, CNN, Image Segmentation, Spacy, NLTK

LANGUAGES

English
French