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LOKMAN AALIOUI

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EDUCATION

Master of Data Science - *OC/ENSAI - France*   **09/2022 – 10/2024**
 • Coursework: Introduction to Deep Learning, Neural Networks for NLP and computer vision, Machine Learning for Large Datasets, Cloud Computing, Data Analysis, Artificial Intelligence, Database Management

Bachelor of Economics & Management - *Montpellier University - France*   **09/2013 – 08/2016**
 • Coursework: Mathematics & statistics for Economics, Business Intelligence & Decision Support, Time Series Econometrics, Quantitative Methods, Product Strategy, Marketing, Finance, Statistical Analysis

PROJECTS

Credit Risk Scoring Model training and deployment in the cloud   **10/2024**
 • Developed and deployed end-to-end credit risk prediction system with LightGBM, RandomForest, and Logistic Regression; optimized with SMOTE, Under-Sampling, and Over-Sampling; conducted SHAP analysis uncovering significant features
 • Built and deployed FastAPI with Pydantic on Heroku, integrated MLflow for model monitoring and automated drift detection with Evidently, revealing data drift up to 36% in 9 of 120 features [Github]

Object recognition in a Big Data processing pipeline   **09/2024**
 • Developed and deployed a scalable Big Data processing pipeline on AWS to handle over 94,000 images of fruits for a mobile application, using PySpark and AWS S3; ensured real-time data processing to facilitate image identification for users
 • Implemented MobileNetV2 and Principal Component Analysis (PCA) for dimensionality reduction, enabling high-quality image classification and improving model accuracy; optimized data storage in Parquet format [Website]

Dual-Modal Product Classification using NLP and Computer Vision   **07/2024**
 • Implemented a multi-modal classification system with Natural Language Processing and Computer Vision to automate product categorization for a marketplace; applied CountVectorizer and CNN-based transfer learning (ResNet50)
 • Analyzed and validated model performance, achieving an accuracy of 87.29% on product classification with data augmentation; demonstrating the feasibility of deploying an automated classification engine [Website]

Agile Project Management : AI Mobile Application   **06/2024**
 • Implemented Scrum methodologies to manage an AI mobile application project, created and prioritized the backlog, ensured the delivery of key milestones, and maintained project flexibility to adapt to requirements within Microsoft Azure
 • Managed the project's financials trough backlog, with an initial design cost of €40K and annual costs of €20K; the project was expected to generate a 150% ROI within 4 years, with a payback of just 15 months after the product launch [Website]

EXPERIENCE

Risk Analyst - *Credit Agricole Group - France*   **10/2020 – 09/2022**
 • Delivered reports and analytical findings to stakeholders, on claims, fraud, and churn, and collaborate with cross-functional teams to develop and implement risk management strategies, achieving a 4.5% annual reduction in overall risk profiles

Bank Advisor - *Credit Agricole Group - France*   **09/2018 – 10/2020**
 • Managed a portfolio of 200+ clients, providing investment, insurance and savings advice, achieving 150% of the target objectives over the course of two years, prioritizing user-centric behavior and effective sales strategy

Financial Advisor - *Credit Agricole Group - France*   **09/2016 – 09/2018**
 • Sold consumer credit products to prospective clients, reaching monthly sales exceeding €1 million multiple times, equivalent to 200% of the sales target, delighting clients and customer requirements, developing business acumen mindset

SKILLS

Spoken Languages	French (Native), English (BULATS C1), Japanese (Beginner), Malay (Beginner), Mandarin (Beginner)
Tech stack	Python (Tensorflow, Pytorch, Keras, Numpy, Scikit-Learn, Pandas, GIS, Matplotlib), MLFlow, SQL, Github, APIs, Hadoop, Spark, PySpark, AWS, KNIME, Power BI, Excel, AWS
Technical Skills	Strong foundation in Data Science and Programming, Machine Learning, Mathematics and Statistics, Experience with machine learning and deep learning tools, Experience in measuring credit risk, Proficient in data collection, data exploration, analysis, model design, and deployment, Ability to explain analytical techniques to different stakeholders, Good knowledges in distributed data storage, parallel computing, feature engineering and advanced statistical techniques, Strong business acumen
Soft Skills	Written and verbal communication skills, Entrepreneurial and business mindset, Strong analytical skills, Problem solving skills, Collaboration, Countinious learning passion for sharing knowledge