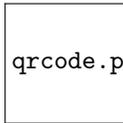


# MANISSA BOUDA

Data Engineer & Governance Officer | Gouvernance des Donnees, Qualite & Intelligence Artificielle



Scannez pour explorer mon assistante IA, mes projets et competences

## EXPERIENCE PROFESSIONNELLE

### BNP Paribas Cardif — Data Engineer & Governance Officer

Septembre 2024 — Present

**Developpement & automatisation** : developpement de scripts Python pour automatiser la generation de fichiers de chargement et le traitement de donnees (gain de temps significatif, reduction du risque operationnel). Extractions et requetes SQL via SAS sur des bases de donnees a grande echelle.

**Controles de qualite des donnees** : implementation de controles (completude, validite, unicite, coherence) sur les referentiels Tiers, Comptes comptables et Titres. Migration des controles de DAX/Excel vers Python, reduisant les temps de traitement de plusieurs heures a quelques minutes.

**Dashboards Power BI** : conception du dashboard Titres de A a Z (accueil, synthese qualite, anomalies, tendances). Correction et optimisation des dashboards existants (Tiers, Comptes comptables, Produits d'assurance). Creation de visuels pour comites strategiques.

**Gouvernance des donnees** : construction de dictionnaires de donnees et Data Control Catalogues. Cartographie des flux d'alimentation (BCPP, Actifs financiers, Titres). Participation aux reunions de cadrage inter-services (Finance, IT, Risk). Expertise sur l'outil Colibra.

**Collaboration transverse** : animation de rituels Agile, echanges avec les equipes metier pour structurer la gouvernance, definir les donnees critiques et aligner les referentiels avec les normes comptables.

### McDonald's — Manager

Juin 2021 — Juillet 2024

Encadrement d'equipe, gestion des achats et relations fournisseurs, mise en conformite HACCP et audits internes, animation du restaurant.

## PROJETS ACADEMIQUES & REALISATIONS CLES

### Preprint arXiv (en cours) : IA Generative Locale sur Appareils Edge en Environnements Bancaires Regules

Stack: MLX, GGUF, Python, Docker

Framework d'evaluation et benchmarking systematique (inspire de MT-Bench) sur taches bancaires : intent classification (Banking77) et analyse de sentiment (Financial PhraseBank). Etude comparative des runtimes MLX vs GGUF sur Apple Silicon.

### Evaluation Environnementale avec Agribalyse

Stack: Python, Scikit-learn, Clustering, Data Visualization

Developpement d'un modele de prediction et de clustering en Python pour evaluer l'impact ecologique des produits agricoles. Optimisation du traitement de donnees massives, reduisant le temps d'analyse et ameliorant la visualisation des resultats pour une meilleure prise de decision.

### Blockchain et Securisation des Processus Electoraux

Stack: C, Algorithmes cryptographiques, Blockchain

Implementation d'un processus de vote securise en langage C, integrant des algorithmes cryptographiques. Renforcement des competences en blockchain et cyberscurite, assurant l'integrite et la transparence des transactions.

### Developpement d'une Intelligence Artificielle pour Robotique

Stack: Python, API REST, Automatisation

Conception d'une API permettant l'interaction entre une intelligence artificielle et un systeme robotise. Amelioration des capacites d'automatisation et d'apprentissage du robot, reduisant les interventions humaines et augmentant l'efficacite operationnelle.

## FORMATION ACADEMIQUE

### Ecole Management Leonard de Vinci (EMLV) — Master Management des Systemes d'Informations et des Datas

Sept. 2024 — Aout 2026

Master Programme Grande Ecole. Memoire : « Adaptation des grands modeles de langage en environnement contraint : construction d'un cadre decisionnel multicritere pour le choix entre fine-tuning parametre-efficent, RAG et prompt engineering ».

### Sorbonne Universite — Licence Informatique

Sept. 2020 — Aout 2024

Formation en algorithmique, structures de donnees, systemes d'information et developpement logiciel.

## COMPETENCES TECHNIQUES

**Langages** : SQL, Python, DAX, R, Java, C.

**Gouvernance** : Gouvernance des donnees (RGPD, DAMA), Qualite des donnees (DQ), Colibra, Dictionnaires de donnees, Data Control Catalogue.

**Gestion de projet** : Agile, Scrum, RACI, animation de comites, data owners, pilotage qualite.

**Certifications** : PSM I (Scrum Master), AI Fundamentals (IBM), Tosa Excel Avance, DevOps (en cours).

**Data & BI** : Power BI, SAS, Tableau, Jupyter Notebooks, Data Analytics & Visualization, Big Data (Hadoop/Spark).

**AI & ML** : Machine Learning, Scikit-learn, Fine-tuning, LLMops, IA Generative, IBM AI Fundamentals.

**Outils** : Microsoft Office (Excel Avance), VS Code, GitLab, GitHub, Share-Point, Miro.

## LANGUES

Anglais : C1

Francais : C2

Arabe : C1

# MANISSA BOUDA

Data Engineer & Governance Officer | Data Governance, Quality & Artificial Intelligence

qr code .png

Scan to explore my AI assistant, projects and skills

## PROFESSIONAL EXPERIENCE

### BNP Paribas Cardif — Data Engineer & Governance Officer

September 2024 — Present

*Development & automation:* built Python scripts to automate file generation and data processing pipelines (significant time savings, reduced operational risk). SQL queries and large-scale data extractions via SAS.

*Data quality controls:* implemented quality checks (completeness, validity, uniqueness, consistency) on Third-Party, Chart of Accounts and Securities repositories. Migrated controls from DAX/Excel to Python, cutting processing time from hours to minutes.

*Power BI dashboards:* designed the Securities quality dashboard end-to-end (home, quality summary, anomalies, trends). Fixed and optimized existing dashboards (Third-Party, Chart of Accounts, Insurance Products). Created visuals for strategic committees.

*Data governance:* built data dictionaries and Data Control Catalogues. Mapped data lineage and feeds (BCPP, Financial Assets, Securities). Participated in cross-functional scoping meetings (Finance, IT, Risk). Expertise on the Colibra platform.

*Cross-functional collaboration:* facilitated Agile rituals, liaised with business teams to structure governance, define critical data elements and align reference frameworks with accounting standards.

### McDonald's — Manager

June 2021 — July 2024

Team supervision, procurement and supplier management, HACCP compliance and internal audits, restaurant operations.

## ACADEMIC PROJECTS & KEY ACHIEVEMENTS

### Preprint arXiv (In progress): Local Generative AI on Edge Devices in Regulated Banking Environments

Stack: MLX, GGUF, Python, Docker

Systematic evaluation and benchmarking framework (inspired by MT-Bench) on banking tasks : intent classification (Banking77) and sentiment analysis (Financial PhraseBank). Comparative study of MLX vs GGUF runtimes on Apple Silicon.

### Environmental Assessment with Agribalyse

Stack: Python, Scikit-learn, Clustering, Data Visualization

Development of a prediction and clustering model in Python to evaluate the ecological impact of agricultural products. Optimization of big data processing, reducing analysis time and improving result visualization for better decision-making.

### Blockchain and Securing Electoral Processes

Stack: C, Cryptographic Algorithms, Blockchain

Implementation of a secure voting process in C language, integrating cryptographic algorithms. Strengthening skills in blockchain and cybersecurity, ensuring the integrity and transparency of transactions.

### Development of Artificial Intelligence for Robotics

Stack: Python, REST API, Automation

Design of an API allowing interaction between artificial intelligence and a robotic system. Improvement of the robot's automation and learning capabilities, reducing human interventions and increasing operational efficiency.

## EDUCATION

### Leonard de Vinci School of Management (EMLV) — Master's in Information Systems and Data Management

Sept. 2024 — Aug. 2026

Master in Management Program (PGE). Thesis : "Adapting large language models in constrained environments : building a multi-criteria decision framework for choosing between parameter-efficient fine-tuning, RAG and prompt engineering".

### Sorbonne University — Bachelor's Degree in Computer Science

Sept. 2020 — Aug. 2024

Training in algorithms, data structures, information systems, and software development.

## TECHNICAL SKILLS

**Languages:** SQL, Python, DAX, R, Java, C.

**Governance:** Data Governance (GDPR, DAMA), Data Quality Management (DQ), Colibra, Data Dictionaries, Data Control Catalogue.

**Project Management:** Agile, Scrum, RACI, committee facilitation, data owner identification, quality steering.

**Certifications:** PSM I (Scrum Master), AI Fundamentals (IBM), Tosa Excel Advanced, DevOps (in progress).

**Data & BI:** Power BI, SAS, Tableau, Jupyter Notebooks, Data Analytics & Visualization, Big Data (Hadoop/Spark).

**AI & ML:** Machine Learning, Scikit-learn, Fine-tuning, LLMOps, Generative AI, IBM AI Fundamentals.

**Tools:** Microsoft Office (Excel Advanced), VS Code, GitLab, GitHub, Share-Point, Miro.

## LANGUAGES

**English:** C1

**French:** C2

**Arabic:** C1