Meher Selmi

Data Scientist — 4+ years experience in AI/ML, Financial & ESG modeling

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Summary

Data Scientist with over 4 years of experience developing and deploying machine learning models in startup environments, with a focus on financial analytics, ESG modeling, and AI-driven credit scoring. Proven ability to build cloud-based solutions using Python, GCP Vertex AI, and AWS. Experienced in mentoring interns, automating ML pipelines, and collaborating with cross-functional teams to align AI strategy with business goals.

Experience

SmartGreenInvest LTD, London (Remote) –   *Feb 2023 – Present*

- Developed credit scoring system combining financial ratios and ESG signals, offering a faster and smarter alternative to traditional manual evaluations

- Designed an AI-powered ESG evaluation system focused on actionable insights, reducing the reporting cycle from months to just a few days and helping decision-makers prioritize sustainability actions

- Led the entire MLOps lifecycle, deploying models quarterly on Google Cloud Vertex AI, and automating releases with Docker and GitHub Actions, significantly speeding up iteration

- Actively collaborated with executives, shaping product direction and aligning AI solutions with sustainability strategy and business needs

- Solely responsible for all AI/ML infrastructure and deployment pipelines in a startup environment

Trident-AI LTD, Burgas (Remote) –   *May 2021 – Present*

- Developed and deployed advanced credit scoring models for financial clients (e.g., SmartGreenInvest), integrating financial ratios, macroeconomic indicators, and external news signals using XGBoost and Keras

- Designed and maintained end-to-end ML pipelines on AWS, working within a small team but acting as cloud admin for SageMaker deployments and IT infrastructure

- Led and mentored a cohort of 3 data science interns — several achieved top academic honors, published projects, or secured industry roles

- Supported internal R&D and consulting efforts for AI product development and financial modeling across client ecosystems

OptimaLogistic, Tunisia (Internship) –   *Feb 2020 – Jul 2020*

- Built and trained machine learning models to predict vehicle availability, improving fleet planning accuracy

- Developed a Flask-based web interface to deploy predictions and make insights accessible to dispatch teams

- Designed interactive dashboards using Chart.js to visualize fleet availability and route efficiency

- Implemented Google OR-Tools to calculate optimal delivery routes, helping reduce transportation costs and delivery time

Education

Higher Institute of Computer Science of Mahdia, Tunisia

    Master's Degree in Data Science   *2018 – 2020*

- Focus: Machine Learning, Big Data, Predictive Modeling

    Bachelor's Degree in Computer Science   *2014 – 2017*

- Relevant coursework: Algorithms, Databases, Software Engineering

Skills

- **Programming:** Python, SQL, Pandas, NumPy, JSON
- **Machine Learning:** scikit-learn, XGBoost, Keras, Artificial Neural Networks (ANN), Gemini API
- **Data Visualization:** Matplotlib, Seaborn, Chart.js, Streamlit
- **Cloud & Deployment:** Google Cloud (Vertex AI), AWS (SageMaker), Docker, GitHub Actions, Flask
- **Tools & APIs:** Jupyter, REST APIs, Pretrained LLMs
- **Soft Skills:** Mentoring & leadership, cross-functional communication, business reporting, agile development, ESG & finance domain knowledge

Certifications

Cloud & AI Platforms
AWS Certified Cloud Practitioner — *Amazon Web Services*, valid until Oct 2025
AWS Cloud Quest: Cloud Practitioner — *Amazon Web Services*, issued Aug 2022
Prompt Design in Vertex AI Skill Badge — *Google Cloud*, issued Nov 2024

Data Science & Machine Learning
IBM Data Science Professional Certificate — *Coursera*, issued Nov 2019
Machine Learning with Python — *Coursera*, issued Sep 2019
Advanced Machine Learning and Signal Processing — *Coursera*, issued Dec 2019
Applied AI with DeepLearning — *Coursera*, issued Dec 2019
Data Analysis with Python — *Coursera*, issued Sep 2019
Applied Data Science Capstone — *Coursera*, issued Nov 2019

Link: https://www.credly.com/users/meher-selmi/badges

Projects (Personal/academic)

- **LLM-Powered Quiz App** — Local quiz generator for evaluating data science skills Built a Python app using a pretrained LLM (DeepSeek) to generate and evaluate quiz content. Demonstrated prompt engineering, backend logic, and API design.
- **Competitor Market Analysis Dashboard** — Streamlit-based business intelligence tool Developed a dashboard to manage and visualize competitor data. Included tagging features (e.g. revenue, strategy, services), filters, and dynamic visualizations.
- **Used Car Price Predictor** — Regression model with web-scraped data Collected car listings data from multiple websites and trained ML models to predict used car prices. Built a web interface to input features and get price estimates.
- **Automated Trading Bot (Prototype)** — Rule-based trading assistant Built a simple Python bot to simulate trades based on technical indicators. Used historical market data and logic for buy/sell signals to test algorithmic trading ideas.

Languages

Arabic: Native proficiency
English: Full professional proficiency
French: Professional working proficiency