

Maurizio Idini



.com



maurizioidini.github.io



Italian citizen

Passionate about building scalable cloud data platforms, I design data pipelines and integrate AI-driven solutions to enhance data processing. Beyond delivering business impact, I foster collaboration, mentor teams and influence data-driven strategies.

Experience

Lead Data Engineer, Spindox – Milan, IT 2023 – Present

- Designed and implemented cloud-native AWS large-scale data infrastructure for decommissioning sales data platform, improving processing time by 40% through Spark optimization and ensuring reliable daily KPI reporting for business.
- Engineered IaC using CloudFormation code release reducing build time by 98%, revitalized unit test case infrastructure introducing 40+ tests, elevating success rate to 83% and code coverage to 86%, and built a testing report that automate data quality controls, cutting manual QA checks by 85%.
- Designed and implemented a RAG architecture based on a chatbot and document analysis in Azure AI, achieving an 80% reduction in search time for business document information.

Lead Data Engineer, Weroad – Milan, IT (Contractor) 2022 – 2023

- Designed and implemented a Business Intelligence infrastructure on Google Cloud for data ingestion from both internal and external sources, ensuring efficient integration and processing of data company.
- Centralized fragmented business data (from Excel, multiple internal databases, ERP and third-party frameworks) into a secure BigQuery data warehouse, providing reliable daily reporting and actionable insights for stakeholders and board.
- Created Business Intelligence department and established team processes using Agile methodology, managing stakeholder requests and priorities, reducing the time taken to fulfill business requests by 50%.

Senior Data & Machine Learning Engineer, Reply – Milan, IT 2017 – 2022

- Developed data pipelines to analyze trends and seasonality in historical data using Databricks and Scikit, reducing maintenance costs and preventing potential damages.
- Built a chatbot for trader assistance, reducing information retrieval times by 80%, a Portfolio Hedging system using Reinforcement Learning to balance profit and loss, and a Deep Learning model to predict financial market indicators, reducing computation time from 24 minutes to 250 milliseconds.
- Contributed to presales efforts by creating business proposals, including architecture and development timelines, for innovative Machine Learning solutions and data integration.
- Created a Deep Learning-based document recognition system for identity documents and bills, achieving 94% accuracy and extracting 90% of the relevant information using OCR.

Skills

Languages Python, SQL, Java, C#, C++

Data Engineering PySpark, AWS (Glue, Lambda, Redshift, Athena, Appflow, CloudFormation), Google Cloud (Bigquery, Composer), Azure (Azure AI), Databricks, Apache Airflow, Docker, Jenkins, Flask, Pytest, PyDoc

Machine Learning Keras, Caffe, Pytorch, Tensorflow, Pandas, SciKit, NLKT, XGBoost

Languages

Italian Native speaker

English B2

German (currently studying) A2.2

Education

University of Pisa, Italy – M.Sc. in Computer Science 2017

University of Siena, Italy – B.Sc. in Computer Science and Math 2013