Malek BEN YOUSSEF

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EDUCATION

Data Science MSc Degree,
EDC Paris Business School ↗
October 2025 – Present
Paris, France

Computer Science Engineer,
National Institute of Applied
Sciences and Technology
(INSAT) ↗
2022 – 2025 | Tunis, Tunisia

Preparatory Cycle, National
Institute of Applied Sciences and
Technology (INSAT) ↗
2020 – 2022 | Tunis, Tunisia
Relevant Courses: Linear Algebra,
Databases, Algorithms and Data
Structures, Big Data, Data
modeling, Optimization Methods

CERTIFICATES

Professional Data Engineer ↗
Google Cloud

**Professional Machine Learning
Engineer** ↗
Google Cloud

Deep Learning Specialization ↗
DeepLearning.AI

LANGUAGES

English: Proficient

French: Proficient

German: Basic

SKILLS

Programming Languages
Python, SQL

**Machine Learning & AI
Frameworks**
Google ADK, LangGraph,
LangChain, LlamaIndex, SpaCy,
NLTK, Hugging Face, RAG, Prompt
Engineering, Context Caching

Cloud & MLOps
GCP, AWS, Vertex AI, Dataflow,
Pub/Sub, Cloud Composer,
BigQuery, Apache Airflow, Docker

PROFESSIONAL EXPERIENCE

AI Engineer, CMA CGM
October 2025 – Present | Paris, France
- Developed a GenAI labeling agent, automating 80% of workload and reducing labeling costs by 92% (from €500k to €41k).
- Deployed a serverless dual-agent pipeline on Cloud Run Jobs, accelerating batch processing by 50%.
- Reduced LLM token consumption using context caching and batching, reducing input token costs by 90%
- **Skills**: GCP, Python, Agentic AI, LLM Orchestration, Prompt Engineering, REST APIs

Data Engineer, Crewmeister
February 2025 – September 2025 | Munich, Germany
- Automated Airflow ETL/ELT pipelines to ingest and transform data into BigQuery.
- Created cost efficient data workflows using Airflow automation, reducing BigQuery costs by over 57%.
- Implemented Medallion architecture using dbt for modular models
- **Skills**: BigQuery, dbt, SQL, Apache Airflow, Looker Studio, Python, Docker, Kafka, Git

Machine Learning Intern, Premier Cloud
July 2024 – September 2024 | Victoria, British Columbia, Canada · Remote
- Deployed GCP Agent Builder chatbot on Cloud Run, automating reporting and batch workflows.
- Built Pub/Sub Dataflow streaming pipelines, reducing latency by 65%.
- Optimized partitioned and clustered BigQuery tables, reducing query costs by 48% across 27M+ rows.
- **Skills**: GCP, BigQuery, SQL, Vertex AI, Docker, Git, Pub/Sub, Cloud Functions.

Machine Learning Intern, Silver Brain AI AG
November 2023 – January 2024 | Geneva, Switzerland · Remote
- Developed a chatbot using Llama 2 LLM (7B parameters) to provide detailed service information to clients.
- Employed RAG techniques to optimize LLM text generation, improving output quality by 30%.
- Integrated and deployed the chatbot application in a web app, managing a CI/CD pipeline.
- *Skills:* Python, LangChain, LlamaIndex, Prompt Engineering, FastAPI, Git, GitHub Actions

PROJECTS

Query Assistant
- Built an NL2SQL system converting natural language into SQL queries.
- Deployed the application using Google Cloud Run and managed a CI/CD pipeline with Google Cloud Build, accelerating the workload by 55%.
- Optimized queries and ensured 95% of its schema compliance with Dataplex.
- **Skills**: GCP, BigQuery, SQL, Vertex AI, Docker, Git, Prompt Engineering

Soccer Chatbot
- Built an information retrieval system about soccer based on 1000+ PDF file pages.
- Used Llama 2 LLM and RAG techniques achieving 95% accuracy in information retrieval.
- **Skills:** Python, LangChain, Chainlit, FAISS, OpenAI Embeddings, Llama2

Autonomous Navigation using Deep Reinforcement Learning
- Created an autonomous robot navigation system employing the TD3 algorithm.
- Implemented deep reinforcement learning techniques achieving 92% success rate in obstacle avoidance.
- **Skills:** Python, SQL, PostgreSQL, TensorFlow, Gazebo, ROS2