

# Malek BEN YOUSSEF


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📍 Munich, Germany    website



## EDUCATION

### Master of Engineering in Computer Science

National Institute of Applied Sciences and Technology (INSAT)   
2021 – Present | Tunis, Tunisia


### Bachelor of Engineering in Computer Science

National Institute of Applied Sciences and Technology (INSAT)   
2019 – 2021 | Tunis, Tunisia  
**Relevant Courses:** Linear Algebra, Database Management, Algorithms and Data Structures, Deep Learning, Cloud Computing, Big Data, Optimization Methods, Reinforcement Learning, NLP

## LANGUAGES

**English:** Proficient  
**French:** Proficient  
**Spanish:** Basic

## CERTIFICATES

**Professional Machine Learning Engineer**   
Google Cloud

**Deep Learning Specialization**   
DeepLearning.AI

**Scrum Fundamentals** 

## SKILLS

**Programming Languages**  
Python, C, C++, Java, SQL

**Machine Learning & AI Frameworks**  
TensorFlow, scikit-learn, LangChain, LlamaIndex, SpaCy, NLTK, Hugging Face

**Cloud & MLOps**  
Google Cloud Platform (GCP), Vertex AI, BigQuery, Looker Studio, Apache Airflow, Docker, CI/CD, GitHub Actions, Flask

## PROFESSIONAL EXPERIENCE

### Data Engineer Intern

Crewmeister  
February 2025 – present | Munich, Germany

- Automated ETL and ELT Airflow pipelines to ingest and process data from diverse sources into the BigQuery data warehouse.
- Implemented cost efficient data workflows using Airflow automation and materialized views, reducing query costs by over 25%.
- Ensured 98% data accuracy through automated quality checks and anomaly detection using Dataplex, Cloud Composer, and Dataflow.
- Migrated 4TB of datasets from the US to the EU region using Cloud Composer orchestration and Cloud Storage.
- Skills:** GCP, BigQuery, SQL, Apache Airflow, Looker Studio, Python, Docker, Git, Gitlab

### Machine Learning Intern

Premier Cloud Inc  
July 2024 – September 2024 | Victoria, British Columbia, Canada · Remote

- Built an NL2SQL system converting user prompts into SQL queries with natural language responses
- Helped the company's sales managers to quickly retrieve customer billing information
- Performed SQL query optimization, improving information retrieval speed by 30%.
- Deployed the application using Google Cloud Run and managed a CI/CD pipeline with Google Cloud Build
- Skills:** GCP, BigQuery, SQL, Gemini, Vertex AI, Prompt Engineering, Docker

### Machine Learning Engineer (Part-Time)

Silver Brain AI AG  
November 2023 – January 2024 | Geneva, Switzerland · Remote

- Developed a chatbot using the pre-trained LLaMA 2 model with 7 billion parameters to deliver detailed information about the company's services to clients.
- Employed Retrieval-Augmented Generation (RAG) techniques to optimize LLM text generation, resulting an improvement of approximately 30% in output quality
- Skills:** Python, LangChain, LlamaIndex, Prompt Engineering, FastAPI

### Full Stack Developer Intern

Safran  
July 2023 – September 2023 | Tunis, Tunisia

- Created a dashboard for 100+ users, that offers quick access to the company's equipment status.
- Integrated data visualization and real-time updates, achieving a 25% improvement in operational efficiency
- Skills:** Angular, Spring Boot, MySQL

## PROJECTS

### Autonomous Navigation using Deep Reinforcement Learning

June 2024

- Developed an autonomous robot navigation system employing the TD3 algorithm, resulting in a significant 85% improvement in navigation accuracy.
- Implemented deep reinforcement learning techniques to enable obstacle avoidance, achieving a 92% success rate in various test environments.
- Skills:** Python, ROS2, Rviz, Gazebo, TensorFlow.

### Soccer Chatbot

December 2023

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