

# MALEK BEN YOUSSEF

## Data Science Junior

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### PROFESSIONAL EXPERIENCE

<b>Data Engineer Intern</b> <i>Crewmeister</i>	Feb 2025 – Present <i>Munich, Germany</i>
<ul style="list-style-type: none"><li>Built automated ETL pipelines to ingest and process data from multiple SaaS APIs into BigQuery</li><li>Created user behavior analytics dashboards to track inactivity patterns across Crewmeister application</li><li>Built a Google Apps Script tool to inventory Looker Studio assets and automate permission management.</li><li>Optimized SQL queries, cutting query size and reducing BigQuery costs by 40%.</li><li><b>Skills:</b> GCP, BigQuery, SQL, Apache Airflow, Looker Studio</li></ul>	
<b>Machine Learning Intern</b> <i>Premier Cloud</i>	Jul. 2024 – Sep. 2024 <i>Victoria, British Columbia, Canada · Remote</i>
<ul style="list-style-type: none"><li>Built an NL2SQL chatbot converting user prompts into SQL queries with natural language responses</li><li>Helped the company's sales managers to quickly retrieve customer billing information</li><li>Worked with Gemini LLM and achieved approximately 95% output accuracy.</li><li>Optimized SQL queries, reducing query size and achieving a 30% reduction in BigQuery billing.</li><li>Deployed the application using Google Cloud Run and managed a CI/CD pipeline with Google Cloud Build.</li><li><b>Skills:</b> GCP, BigQuery, SQL, Gemini, Vertex AI, Looker Studio, Prompt Engineering, Generative AI, Git</li></ul>	
<b>Machine Learning Engineer (Part-Time)</b> <i>Silver Brain AI AG</i>	Nov. 2023 – Jan. 2024 <i>Geneva, Switzerland · Remote</i>
<ul style="list-style-type: none"><li>Developed a chatbot using Llama 2 LLM (7B parameters) to provide detailed service information to clients.</li><li>Employed RAG techniques to optimize LLM text generation, improving output quality by 30%</li><li>Integrated and deployed the chatbot application in a web app, managing a CI/CD pipeline</li><li><b>Skills:</b> Python, LangChain, LlamaIndex, Prompt Engineering, FastAPI, Git</li></ul>	
<b>Full Stack Developer Intern</b> <i>Safran</i>	July. 2023 – Sep. 2023 <i>Tunis, Tunisia</i>
<ul style="list-style-type: none"><li>Created a dashboard for 100+ users, that offers quick access to the company's equipment status.</li><li>Integrated data visualization and real-time updates.</li><li><b>Skills:</b> Angular, Spring Boot, Git, SQL, REST APIs</li></ul>	

### SKILLS

**Programming Languages:** Python, SQL, C, C++, Java  
**Machine Learning & AI Frameworks:** TensorFlow, scikit-learn, LangChain, LlamaIndex, SpaCy, NLTK  
**Cloud & MLOps:** Google Cloud Platform, Vertex AI, BigQuery, Apache Airflow, Docker, CI/CD, GitHub Actions, Flask  
**Languages:** English (Fluent), French (Proficient), Spanish (Basic)

### PROJECTS

<b>Autonomous Navigation using Deep Reinforcement Learning</b>	May. 2024 – Jul. 2024
<ul style="list-style-type: none"><li>Developed an autonomous robot navigation system using the TD3 algorithm.</li><li>Achieved an 85% improvement in navigation accuracy.</li><li>Implemented deep reinforcement learning for obstacle avoidance, achieving 92% success rate in tests.</li><li><b>Skills:</b> Python, ROS2, Rviz, Gazebo, TensorFlow.</li></ul>	
<b>Soccer Chatbot</b>	Dec. 2023 – Jan. 2024
<ul style="list-style-type: none"><li>Built an information retrieval system about soccer based on 1000+ PDF file pages.</li><li>Applied Llama 2 LLM and RAG techniques achieving 95% accuracy in information retrieval.</li><li><b>Skills:</b> Python, LangChain, Chainlit, FAISS, OpenAI Embeddings, Llama2</li></ul>	

### EDUCATION

<b>National Institute of Applied Sciences and Technology (INSAT)</b> <i>National Engineer's Degree in Computer Science</i>	Tunis, Tunisia Sept. 2020 – Present
<b>Relevant Courses:</b> Linear Algebra, Database Management, Algorithms and Data Structures, Deep Learning, NLP, Cloud Computing, Big Data, Optimization Methods, Reinforcement Learning	

### CERTIFICATES

<u>Professional Machine Learning Engineer</u> <i>Google Cloud</i>	<u>Deep Learning Specialization</u> <i>DeepLearning.AI</i>	<u>Scrum Fundamentals</u> <i>SCRUMstudy</i>
<i>Jul, 2024</i>	<i>Feb, 2024</i>	<i>Feb, 2022</i>