



Mohamed Sabkhi

Data Scientist, Masters Diploma

 medsabkhi@gmail.com
 +216 95 231 067
 github.com/MedSabkhi21
 Mohamed Sabkhi
 Tunisia

TECHNICAL SKILLS

- **Programming Languages**
Python, R, Scala, Java.
- **Version control :**
Git, DVC, Github, Gitlab, Bitbucket
- **Containers and Orchestration:**
Kubernetes, Docker
- **Continuous integration:**
Github Actions, Jenkins
- **Database and Cloud services :**
Azure Cloud, Google Cloud Platform, AWS, MongoDB, MySQL, PostgreSQL, Databricks
- **Machine Learning related skills:**
Scikit-learn, Pytorch, TensorFlow, Keras, Pyspark, Spark, Pandas, MLFlow, Airflow, NLP, time series.
- **Other skills:**
Linux, SCRUM, Kanban, Kafka, Unit testing, SQL, Jenkins, noSQL, ETL, bash scripting, Data streaming (Kafka)

LANGUAGES

- English Fluent C1 IELTS
- French Native
- Arabic Native
- German Basic

QUALITIES

- Agility
- Problem solving
- Continuous learning

CERTIFICATES

- ETL and data-pipelines with shell, airflow and kafka (IBM)
- AZ-900: Microsoft Azure Fundamentals
- Microsoft Azure Databricks for Data Engineering.
- Perform Data Science with Azure Databricks
- TensorFlow Developer Professional Certificate

COMMUNITY ENGAGEMENT

- Google Developers Student Clubs ENETCOM President & founder :
Selected as the top 3 highest performing GDSC chapter in TN.
- Github Tunisian Community Organizer

WORK EXPERIENCE

DATA SCIENTIST

ADIDAS, Germany

May - Oct 2023

- **Data Management and Transformation:**
Managed Data pipelines and processed terabytes of intricate data, executing aggregations and transformations. Optimized data structures to enhance efficiency for subsequent analysis.
- **Proof of Concept Recommendation Model Innovation:**
Contributed to the development of Proof of Concept recommendation model. Achieved a 3x performance improvement over the existing solution.
- **Seamless Production Transition:**
Successfully transitioned the POC recommendation model into production, expanding its accessibility to millions of global users.
- **Market-Specific Model Analysis and Optimization:**
Conducted a comprehensive analysis of an existing model in specific markets, identifying behavioral patterns and limitations. Implemented strategic enhancements to improve the model's performance and efficiency based on the analytical findings.

Technologies: Jira, Confluence, Bitbucket, Pyspark, Pytorch, SCRUM, Python, MLFlow.

DATA SCIENTIST

Omdena, Remote

Feb 2022-May2023

Cognifit partnership:

- Contributed in developing an Open Source AI model to enhance user engagement in personalized games and levels for cognitive training and brain fitness platform..

Liberia Chapter:

- Contributed to the creation of an innovative AI-powered application focused on predictive modeling and forecasting for malaria prevention in Liberia.

Saudi Arabia Chapter:

- Successfully applied machine learning techniques to predict customer churn in the dynamic e-commerce sector, showcasing an ability to translate data-driven insights into actionable strategies for business optimization.

Technologies: Pytorch, DVC, DagsHub, Docker, Python, Pandas.

DATA ENGINEER

Cognira, Tunisia, internship

Jul 2022 - Aug 2022

- Adopted Scrum principles to effectively manage an agile workflow, including sprint planning, and retrospective meetings to improve team collaboration and productivity.
- Designed a dynamic automated data pipeline natively on kubernetes.
- Distributed data processing of large datasets using Spark on kubernetes.

Technologies: Scala, Spark, PostgreSQL, Bitbucket, Docker, Jenkins, Apache Airflow, Kubernetes.

DATA SCIENTIST

Tassahil, Tunisia, internship

Jan - Apr 2022

- **Deep learning model for image segmentation and classification:**
Created a robust model for identifying cancerous skin lesions through segmentation techniques for precise localization of lesions. Improved accuracy by handling the highly unbalanced data.
- **API Development for Mobile Integration:**
Developed a DevOps-enabled API for seamless integration with a mobile app.
Applied continuous integration strategies to ensure smooth updates and enhancements.

Technologies: Pytorch, Github, Docker, FastAPI, Computervision, Pandas.

PYTHON INSTRUCTOR

GoMyCode, Tunisia

Oct 2021- May 2022

- Mentored over 50 students from different backgrounds on Python: Explained data structures, algorithms and OOP basics to students.

EDUCATION

Applied Mathematics and Software Engineering Masters diploma

National school of Electronics and Telecommunications Sfax , Tunisia

2020 - 2023

- Course-work: R Language, Scala, data visualization, Machine Learning.

Study of the U.S. Institutes for Student Leaders Scholarship

Washington University, Seattle, USA

2022

Preparatory Engineering studies Degree

Institute of preparatory engineering studies Monastir, Tunisia

2018 - 2020

PROJECTS

Semester Project with Telecom company: Fraud detection

- **Fraud Detection Engine:** Developed an API using FastAPI tailored for fraud detection parameters, ensuring flexibility and ease of integration.
- **Automated Model Training:** Implemented a robust CI/CD pipeline specifically for fraud detection model training. Integrated data processing and augmentation, optimizing the training process for accuracy and reliability. Utilized Docker for seamless deployment.

Technologies: Python, Scikit-learn, Numpy, Docker, Streamlit, FastAPI, Github Actions, MLFlow, DVC