

MOHAMED THAIEBU

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Bringing 3 years of experience as a Software Engineer. Demonstrated ability to design, implement, and deploy machine learning models, conduct in-depth data analysis, and develop cutting-edge solutions to streamline and improve business processes.

Profile

- [Linkedin](#)

Skills

- Machine Learning
- Natural Language Processing(NLP)
- Langchain
- Databricks
- Python(FastApi ,Django)
- Numpy
- Keras
- PySpark
- MLflow
- SageMaker
- ETL
- GPT-3 ,LLama
- Microservice
- phidata
- Effective Communication
- Critical Thinking
- Computer Vision
- Deep Learning
- Llama
- Spark
- SQL
- Pandas
- Scikit-learn
- TensorFlow
- Pytorch
- Problem Solving
- NLTK
- MLOPS
- Docker
- Langgraph

Work History

Python Developer - AI/ML Team – OptiSol Business Solution – 2022 - Present

Projects:

elsAi – GenAI Solution – 1 year

Skills : Langchain , CromaDb, Django,EC2

- Backend Engineering: Developed robust backend systems using Python, Django to support scalable microservices architectures, enabling seamless integration with various frontend modules.
- LLM and Generative AI Integration: Leveraged advanced models for AI-driven insights, predictive analytics, and generative responses to support various use cases, from visual comprehension to intelligent Q&A.
- Containerization and Cloud Deployment: Utilized Docker for containerized microservices and deployed scalable solutions on AWS, optimizing performance and ensuring efficient resource management.
- CI/CD Automation: Streamlined deployment processes using GitHub Actions to ensure continuous integration and delivery, accelerating development cycles.

IKE GPS – Telecommunication – 6 month

Skills: Flask, React JS, Image Processing, Object Detection(OpenCV), TensorFlow, Linux

- Gathered pole images from various angles and formats, capturing energy and telecommunications assets.
- Developed object detection models, trained them on substantial datasets, and serialized the models using pickle files.
- Assessed the accuracy and precision of the detection results, optimizing model performance.
- Collaborated on the development of cloud-based software, enabling large-scale AI-driven analysis and efficient data management.
- Built a low-code tool with a React and Python (Flask) backend to empower users with minimal coding knowledge to train machine learning and deep learning models.

AUGUST.INC (1 year)

Skills: JavaScript ,Python, Django, Git, Docker ,CI/CD, PostgreSQL

- Developed web applications, RESTful web services, and microservices architecture using Python and Django
- Built scalable backend and microservice modules, integrated with frontend components using Python, JavaScript, and React.js
- Implemented backend engineering solutions for data management, utilizing PostgreSQL for efficient data storage and retrieval
- Collaborated on requirement reviews and deployment, ensuring effective communication across teams

Atliq - Insurance Premium Prediction (6 month)

Skills: Pandas, Numpy, Machine Learning, XGBoost, Data Visualization, Fast API,Sagemaker

- Developed an insurance premium prediction model using Python and machine learning techniques.
- Optimized Linear Regression, and XGBoost with RandomizedSearchCV.
- Evaluated model performance using R^2 score, MSE, and residual analysis for accuracy.
- Deployed the model using SageMaker and visualized insights with pandas, seaborn, and scikit-learn.

Ocula – E-commerce Sales Optimization (6 month)

Skills: Flask , Playwright, , GCP, Snowflake , Bitbucket, Web Scraping, Data Analysis

- Automated web scraping using Playwright, storing extracted competitor data in GCP Buckets.
- Built Flask-based APIs to trigger scraping, processed and stored data in Snowflake.
- Analysed sales performance with Google Analytics, providing insights to improve sales.
- Managed CI/CD with Bitbucket, deployed Python scripts on GCP for scalable execution

Education

MBA – Annamalai University – 2021

B.sc Physics - Jamal Mohamed college – 2018

Certifications

- [AWS Certified Developer – Associate](#)
 - [Data Analytics Bootcamp 3.0](#)
 - [Master Machine Learning for Data Science](#)
 - [Full Stack developer Django – Coursera - Meta](#)
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POC 's

Developed a fine-tuned Chatbot leveraging **NLP** and **Llama 3.2 model** with **Unsloth**, designed to provide empathetic responses and adapt dynamically to user interactions. Integrated advanced **sentiment analysis** to deeply understand emotional nuances and deliver context-aware, personalized conversations.

GitHub link: [Click here](#)

Built a Product Recommendation Chatbot using Python, incorporating **Google Gemini AI** for personalized recommendations and **ChromaDB** for semantic search with vector embeddings. Implemented **Retrieval-Augmented Generation (RAG)** architecture to combine generative AI with real-time query handling for enhanced user engagement.

GitHub link: [Click here](#)

Developed a **Generative AI-powered chatbot** that enables seamless querying and comparison across multiple documents and images, ideal for enhancing ATS and data-intensive workflows. Integrated AI-driven ATS capabilities to automate candidate sourcing, tracking, and evaluation, improving efficiency in hiring decisions.

GitHub link: [Click here](#)

Developed and deployed the Sam 2 model for advanced object detection, enabling precise identification and tracking across diverse datasets. Enhanced automation and accuracy in visual data analysis, delivering robust solutions for complex object detection tasks.

GitHub link: [Click here](#)

