# KHALED ABDALLAH

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## Summary

Experienced AI and Machine Learning Engineer with 1+ years of expertise in fine-tuning and deploying Hugging Face models, building LLM-powered chatbots, and developing RAG-based solutions for custom business applications. Proficient in NLP tasks using the Transformers library, image classification with TensorFlow and CNNs, and leveraging pre-trained models for computer vision. Skilled in deploying machine learning models into production, including Hugging Face spaces and web platforms.

## Experience

**2024-03-2024-09**

### Internship in Data Analytics
Forward Mena

### Data Analytics (Part Time)
Excel, SQL, and Python, Tableau

### Languages and Technologies:
Business Analytics with Excel, SQL, Programming Basics and Data Analytics with Python and Data Analyst Capstone

**2024-06-2024-08**

### AI Worshop
Hexapi

### AI Engineer (Part Time)
- Developed and fine-tuned models using Hugging Face for NLP and image classification tasks
- Built and deployed LLM-powered chatbots and Retrieval-Augmented Generation (RAG) solutions.
- Deployed machine learning models to Hugging Face spaces and production websites.

### Languages and Technologies:
Python, Hugging Face, TensorFlow, Keras, OpenCV, Scikit-Learn, Transformers, Chainlit, RAG

**2023-02-2023-03**

### Education for AI Engineer
NuGenesis

### AI Engineer
- Gained hands-on experience in utilizing AI models, updating configurations, and expanding knowledge in AI technologies.
- Focused on model development, deployment, and learning industry-standard AI practices.

### Languages and Technologies:
Python, TensorFlow, Keras, TensorFlow-Hub, OpenCV, Matplotlib, Scikit-Learn, chatterbot, Hugging Face, Rasa, FastAPI

## Skills

### Machine Learning:
- Chainlit & LangChain
- Scikit-Learn
- Rasa
- FastApi
- Hugging Face Models
- Large Language Models (LLMs)
- Retrieval-Augmented Generation (RAG)
- NLP with Transformers
- Convolutional Neural Networks (CNNs)
- Pre-trained Models
- Machine Learning Deployment

### Data analytics:
- Data Wrangling and Cleaning
- Data Visualization
- Statistical Analysis
- Pandas and NumPy
- Exploratory Data Analysis (EDA)
- SQL and Database Management
- Machine Learning for Data Analysis
- Data Reporting

## Projects

### Topic classification

**Role**: Machine Learning
tensorflow, NLP, matplotlib, hugging face and Python technologies

- Topic classification is a fundamental task in Natural Language Processing (NLP).
- Created model to automatically classify text documents into specific categories using machine learning techniques.

### Chainlit RAG PDF

**Role**: ChatterBot
Technologies include Python, LangChain, Chroma and ChatOpenAI.

- Extract and process PDF data .
- Generate embeddings and vector store.
- Deploy conversational retrieval chain.

### ChatBot

**Role**: Back-end, Frond-end
Tensorflow, Keras, Nltk, Pickle , HuggingFace

- Trainig model for data.json
- Designed the box message's front-end and put every component on the screen.
- Creating the ChatBot

## Education

2019 - 2022

Information technology license strategies The Institute of Technique Dawssi Information Technology, Dawssi-Akkar LT

## Certificate

Python-based Data Analysis Certificate from freeCodeCamp
Python-based Machine Learning Certificate from freeCodeCamp
Machine Learning Specialization from Coursera

## Languages

English

Arabic