

# MHAMMAD IBRAHIM

Lebanon \_ +96181288432 \_ [mouhamadibrahim42@gmail.com](mailto:mouhamadibrahim42@gmail.com)

<https://github.com/Mhammad2022Ibrahim> <https://www.linkedin.com/in/mhammad-ibrahim-6b1472192/>

## Summary

AI Expert with over a year of experience in artificial intelligence, specializing in computer vision, natural language processing (NLP), machine learning, deep learning, and data analysis. Proven ability to leverage AI technologies to drive business growth and enhance decision-making processes.

## Experience

### Data Analyst

*Forward Mena* (Part-Time Remote)  
June 2024 – October 2024

- Conduct comprehensive data analysis using Excel, SQL, and Power BI to support business decisions.
- Develop and maintain dashboards and reports to visualize key performance indicators (KPIs) for stakeholders, enhancing data accessibility and understanding.
- Perform data cleaning and preprocessing to ensure data integrity and accuracy for analysis.

### AI and Data Analysis

*Eurisko* (Hybrid)  
July 2024 - August 2024

- Engaged in deep data analysis to meet business requirements, identifying patterns and building solutions using machine learning, deep learning, NLP, and computer vision.
- Developed and tested AI-driven models to enhance data processing efficiency
- Collaborated with cross-functional teams to identify data-driven solutions, contributing to the successful launch of a new product feature based on user feedback and data insights.
- Assisted in the documentation of processes and methodologies for future reference and training purposes.

### AI Engineer Intern

*NuGenesis* (Hybrid)  
February 2023 - March 2023

- Gained foundational knowledge in AI technologies and methodologies, participating in hands-on projects that involved building and deploying machine learning models.
- Conducted research on emerging AI trends and technologies, presenting findings to the team to inform project direction and strategy.
- Collaborated with senior engineers to troubleshoot and optimize existing AI models, improving performance metrics.

## Skills

### Programming Languages

Python, R

### Data Analysis Tools

Excel  
SQL  
Tableau

### Data Visualization

Matplotlib  
Seaborn

### AI & Machine Learning

OpenCV, TensorFlow, Keras, Scikit-Learn, Hugging Face

### Development Tools

Git, GitHub, Docker, CI/CD

### MLOps

MLflow, FastAPI

## Projects

### Pothole Detection System

- Developed an AI-driven system to classify potholes into three categories: safe, medium, and risk-pothole based on severity.
- Utilized image preprocessing techniques and trained a pre-trained model (Yolov8) to enhance accuracy.
- Created a user interface using Gradio for real-time testing.

### Classification System (NER) API (FastAPI + BERT)

- Developed a RESTful API for Named Entity Recognition using a fine-tuned BERT model and Hugging Face Transformers.
- Implemented entity extraction using BIO tagging and FastAPI with custom logic for grouping tokens into entities.
- Deployed the system on Render with Docker and exposed Swagger documentation for testing and integration.
- Enabled CORS and designed the system to be frontend-compatible and usable for text analysis tasks in NLP pipelines.

### AI Agent Knowledge Assistant (n8n + Google Sheets)

Designed and implemented an AI-driven assistant capable of understanding and responding to natural language queries about bees, honey, beekeeping tools, and medicines.

- Built a modular AI agent workflow using **n8n** to process both text and voice inputs from users.
- Developed intent classification logic to map user queries to structured data categories: Bees\_Info, Honey\_Types, Beekeeping\_Equipment, and Bee\_Medicines.
- Integrated a Google Sheets knowledge base containing structured domain-specific information.
- Implemented fallback logic using **SerpApi** to handle queries not covered in the dataset.
- Logged queries, timestamps, responses, and intent classification results in real-time for future insights and audit.
- Created a conversational interface via **Telegram**, allowing users to interact with the agent in Arabic or English.

## Education

2022

License in Computer science

Lebanese University

## Certificate

- Machine Learning Engineer Certificate from Data Camp
- Machine Learning Certificate from Coursera
- Data Analysis Certificate from free Code Camp
- Machine Learning Certificate from free Code Camp

## Languages

English (Good)

Arabic (Fluent)

French (Good)