Muhammad Masarwe

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❖ **IBM** Certified Data Analyst, Tech Enthusiast.

EDUCATION

2021-2024 | B.Sc. in Computer Science and Mathematics, Netanya Academic College •

PROJECTS

Audio Fingerprinting Application (Shazam Like)– The Audio Fingerprinting ML System
Quickly identifies songs by generating unique audio fingerprints and comparing them to a database

Used Technology: Python –PyTorch – AudioProcessing – SciPy – Flutter – Flask

Raspberry Pi Visual Calculator - The Raspberry Pi Visual Calculator Employs Deep Learning
To capture and solve equations in real-time, offering a portable math-solving solution.

Used Technology: Python - Computer Vision - TensorFlow Lite - OpenCV-CUDA

Raspberry Pi Voice-Activated LED– Enables users to control LEDs using voice commands
Integrating Voice recognition with LED functionality for interactive lighting control

Used Technology: Python – TensorFlow Lite – CUDA – AudioProcessing

Plant Care Arduino - C++ program utilizing Wi-Fi to read soil moisture sensor data and transmit it
In-real-time to a Firebase database for automated valve control based on moisture

Used Technology: C++ - Wireless Systems – FireBase – RTOS

LangChain LLM ChatBot– Utilizes LangChain's Large Language Model (LLM)
To engage in natural language conversations, in other words chat with you Data

Used Technology: Python – AI Frameworks [LangChain] – NLP – OpenAI

Voice Assistant [NADS]– NADS [Naturally Adaptive Dialog System] which also means Intelligent in Arabic
Is an AI voice assistant engaging interactions with added personality traits, My personal J.A.R.V.I.S.

Used Technology: Python – OpenAI – SciPy – NLP - Keras

TECHNICAL SKILL

Programming Languages: Java - C/C#/C++ – SQL – Python – Rust – R.

Advanced skills: Spark, Git , Matplotlib , TensorFlow, OpenCV , Networking , Embedded Systems.

Basic skills: AWS Azure, Kubernetes, MongoDB, Embedded Linux , ETL , PySpark.

CERTIFICATIONS:

IBM Data Science Professional Certification - Comprehensive 10-courses Program designed to equip the candidate with skills necessary for Entry Level Data-Analyst Roles

LANGUAGES

English - Fluent

Hebrew - Fluent

Arabic - Native Language