Mohammed Anwar AL-Ghrawi

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I am a Control Engineering graduate with a strong focus on AI, generative AI, and computer vision. Proficient in Python, C, and C++, I specialize in developing innovative solutions using large language models and advanced AI technologies. I am passionate about driving technological progress and creating impactful AI-driven applications.

Education

Bachelor of Engineering in Computers and Automation, Damascus University (2019 – 2024)

Skills

- Programming languages: Python | C++ | C | C# | Java | MySQL
- Software technologies: Git | Github| Linux | Third-party API integration
- AI Tools: OpenCV | PyTorch | Tensorflow | Keras | NLTK | SpaCy | Transformers | Hugging Face tools

Projects

Remi virtual assistant (Link on github)

An AI-powered virtual assistant using LLaMA-3 with Retrieval-Augmented Generation (RAG) and text-to-speech integration. Implemented voice interactions in Unity and text-based communication through a Telegram chatbot.

Tool used:

- Unity 3D | Python| Telegram Bot API| Pytorch | Transformers library | Large language models

FaceID (Link on github)

Face Recognition Attendance System using Python, OpenCV, and face_recognition for real-time employee tracking. Integrated a Telegram bot for data registration, and all attendance records were stored in a CSV file.

Tool used:

- Python| Telegram Bot API | Dlib | scikit learn | pandas | matplotlib

Trigger word detection model (Link on github)

Created a TensorFlow-based wake word detection system using GRU units and spectrogram features for audio classification. Integrated data preprocessing techniques including DeepFilterNet and data augmentation.

Tool used:

- TensorFlow | Librosa (feature extraction) | DeepFilterNet | pandas | matplotlib | Pydub | CNN | GRU | LSTM

Intent Recognition model (Link on github)

Developed a machine learning model designed to identify user intents based on natural language input. The model leverages deep learning techniques and semantic analysis to accurately classify and interpret user commands.

Tool used:

- TensorFlow | scikit-learn | spaCy

Volunteer: RBCs Team, Assisted fellow students with academic projects, offering guidance and support to help them succeed in their work. 2020 - 2022