GHULAM MOHI UD DIN

Nationality: Pakistani   **Date of birth:** 03/01/2003

📞 **Phone number:** (+92) 3284050089   ✉ **Email address:** mohi.pk0017@gmail.com

🟢 **WhatsApp Messenger:** 3284050089

in **LinkedIn:** https://www.linkedin.com/in/mohi0017

🌐 **Website:** https://github.com/mohi0017

📍 **Home:** 2nd floor shear plaza with mian marriage hall main jaranwala road, Al-Saeed Chowk Nain sukh , Shahdrah , 54950 Lahore (Pakistan)

ABOUT ME

I am a motivated Artificial Intelligence student who has completed my 6th semester with a CGPA of 3.73 and will enroll in the 7th semester after the summer break. I have a strong background in programming, AI frameworks, computer vision, IoT, and NLP. I am passionate about using AI to create positive social impact and address important challenges. I am looking for an internship where I can apply my skills to develop innovative solutions and contribute to a more sustainable and inclusive future.

WORK EXPERIENCE

Concious Chatbot

- Integrated AIML, Python, Prolog, and Neo4j to create a conversational AI web base ChatBot using Flask.
- Semantic memory
- Epesodic memory
- Social networking
- Sensory memory
- Associated memory

Weapon detection

- Trained YOLO v5 and v8
- Try to manage alarm system
- Using webCam and speaker of laptop
- When model detect anyone with gun then a vice generated and alarm the user

Concealed weapon detection

- Dataset preprocessing
- Traning and evaluation of trained model on thermal dataset contains on person with gun conceal under the clothes.
- Dataset containes on two classes

Sentiment analysis

- Sentiment analysis from text
- Predict emotion
- Either use happy , sad , panic e.t.c

Home Automation Assistant

- Developed ChatBot using Flask
- Integration of Esp32 using Thonny
- Relay to control current and appliances
- User chatting with ChatBot

- Can command it, then request sent to ESP32
- ESP32 manage on/off appliances
- ESP32 pass signal to relay

Empathy Emotional ChatBot

- Empathy Emotional ChatBot designed for controlling user emotions
- Guidin the user how to control
- Detect the user emotion using sentiment analysis and Facial Expressions Recognition
- Generate a reply according to the situation of user
- Technologies are using LangChain and RAGs.
- LLMs and Chains

Facial Expressions Recognition

- Recognize the state of user
- What are the expressions on the face of user
- Datasets are FER+ and AffectNet

RoboGarden

- Here were three parts : Chatbot , Car with robotic arm and Green House with sensors
- Car had robotic arm which grip the things , Car moves towards Green House
- Car controlls and monitors the Green House
- Green House was getting sensors values like humidity , temprature , moisture level etc and send these information to car
- Then car send these info to ChatBot and Chatbot display it to user when user asks.
- We used microcontroller like esp32 for communication and controlling signals
- ESp32 cam for realtime stream , snapshot , video and apply YOLOv8 on it for detection of objects

EDUCATION AND TRAINING

Bachelor in Artificial intelligence
University of Management and Technology, Lahore [01/09/2021 – Current]

City: Lahore | **Country:** Pakistan | **Website:** https://www.umt.edu.pk/

Fsc Pre-engineering
Govt Islamia College Civil Liines , Lahore [01/05/2019 – 01/06/2021]

City: Lahore | **Country:** Pakistan | **Website:** https://www.giccl.edu.pk/

LANGUAGE SKILLS

Mother tongue(s): Urdu | Panjabi; Punjabi

Other language(s):

English

LISTENING A2 **READING** C2 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** A2

German

LISTENING A1 **READING** A1 **WRITING** A1

SPOKEN PRODUCTION A1 **SPOKEN INTERACTION** A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Image Processing, Image Analysis, Image Segmentation / Frameworks & Libraries: OpenCV, Sci-kit learn, NumPy, Pandas, SciPy, Matplotlib. / Languages : C++,C, Java, Python, JavaScript, C. / Leadership, Decision making, Critical thinking, Relationship building / Microsoft Office / Problem-solving / Tensorflow / Keras / Pytorch / Machine

learning / Git / Team management & Team work / Microsoft Powerpoint / Deep Learning, / Team-work oriented / Microsoft Word / Natural language Processing / MySQL & MongoDB / Graph Database (Neo4j) / Computer VIsion / Linux / Prolog / AIML / windows / IoT & Microcontrollers / Microcontrollers (Arduino and ESP32) / Communication and interpersonal / LLMs / Agents / LangChain / HuggingFace / OpenAi