GHULAM MOHI UD DIN

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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

01/09/2021 – CURRENT Lahore, Pakistan
BACHELOR IN ARTIFICIAL INTELLIGENCE University of Management and Technology, Lahore

Website https://www.umt.edu.pk/

01/05/2019 – 01/06/2021 Lahore, Pakistan
FSC PRE-ENGINEERING Govt Islamia College Civil Liines , Lahore

Website https://www.giccl.edu.pk/

LANGUAGE SKILLS

Mother tongue(s): **URDU** | **PANJABI; PUNJABI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	A2	C2	C1	A2	C1
GERMAN	A1	A1	A1	A1	A1

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

DIGITAL SKILLS

Data Science | Data Collection, Data Processing, Data Analysis, Data Visualisation | 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