MUHAMMAD HABIB

AI Engineer │ Backend Developer │ Full-Stack Developer │ React-Native Developer
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OBJECTIVE

Versatile AI engineer, backend developer, and full-stack developer with expertise in machine learning, deep learning, and mobile application development. Skilled in Python, Flask, FastAPI, PyTorch, TensorFlow, and ReactNative. Experienced in building scalable AI models, RESTful APIs, and cross-platform mobile apps. Passionate about leveraging technology to develop innovative solutions and gain practical experience, and support team goals.

PROJECTS

BIIT COURSE ADVISOR CHATBOT (HYBRID SYSTEM)

Developed an AI-powered chatbot that assists students with course selection, prerequisite checks, CGPA-based decisions, failed course recommendations, and enrollment guidance. Used all-MiniLM-L6-v2 (Sentence-BERT) for semantic understanding of natural language queries and FAISS for fast similarity-based retrieval.
Built a Flask-based API to handle real-time interactions and integrated a dynamic knowledge base for up-to-date academic responses.

Main Objective :
- Guide student according to his/her academic record.
- Student can approach without any waiting queue.
- Facilitate students to ask query either in text or voice.

ASPECT-BASED SENTIMENT ANALYSIS (NLP)

Developed an NLP-based sentiment analysis system capable of extracting aspects from user input and classifying sentiment (positive, negative, or neutral) toward each aspect.
- The project supports both voice and text input using SpeechRecognition, spacy, and TextBlob.
- It visually enhances results with emojis (😊😐😢) and sentiment percentages.

BRAIN TUMOR DETECTION USING YOLOV8

Developed a computer vision model using YOLOv8 to detect and localize brain tumors in MRI images. The project involved collecting and annotating medical imaging data, training a custom YOLOv8 object detection model, and evaluating its accuracy. It achieved high precision in detecting tumor regions, providing a foundation for AI-assisted medical diagnosis.
Tech Stack: Python, YOLOv8, Roboflow, OpenCV, PyTorch

EDUCATION

Bachelor's in Computer Science (Specialization in AI)   **Aug 2021-June 2025**

Key Courses: NLP, Machine Learning, Deep Learning, Computer Vision, Database Systems, Application Development

SKILLS

PROGRAMMING: PYTHON, JAVASCRIPT, C#, C++
BACKEND: FLASK, FASTAPI.
FULL-STACK: PYTHON, FLASK, REST APIS
MOBILE: React-Native .
AI & ML: PYTORCH, KERAS, TENSORFLOW, LLMS .
COMPUTER VISION: OBJECT DETECTION, OCR
DATABASES: MYSQL, SQL, FAISS (VECTOR DBS)
TOOLS: JUPYTER NOTEBOOK, GOOGLE COLAB, MATPLOTLIB