

Shaheer Suhaiib

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EDUCATION

National University of Science & Technology (NUST)

Bachelor of Engineering in Computer Engineering

September 2022 – April 2026

Islamabad, Pakistan

RELEVANT COURSEWORK

- Digital Image Processing

- Object Oriented Programming

- Data Structures & Databases

EXPERIENCE

PsychiatrAI

June 2025 – August 2025

Generative AI Intern

Remote, Pakistan

- Built a mental health chatbot based on Cognitive Behavioral Therapy principles to guide users through structured therapy sessions.
- Handled backend logic for CBT flows using LangGraph nodes & LangChain components.
- Deployed LangGraph on backend with self-hosted platforms and used LangGraph Server APIs.
- Connected LangGraph backend APIs with React frontend and deployed it.

PROJECTS

Mission Logging and Tracking Mobile App for Pakistan Army Pilots

Django REST, PostgreSQL, Python

- Developed a cross-platform mobile application for Pakistan Army pilots to streamline mission logging and tracking operations.
- Built Django REST backend with PostgreSQL database for efficient mission data storage and retrieval.
- Enabled real-time mission tracking with filtering capabilities by pilot, location, and date for unit commanders.

CRM Agent – Marketing AI

LangGraph, Supabase, Model Context Protocol (MCP), Gemini, Python

- Developed an AI powered CRM agent that automates client management and marketing workflows using structured customer data and RFM analysis.
- Built LangGraph workflows for CRM automation and intelligent decision making with human-in-the-loop validation checkpoints.
- Applied RFM analysis for customer segmentation and designed AI driven campaigns for **re-engagement, referral, and loyalty programs**.
- Integrated with Supabase for real-time data management and used Model Context Protocol (**MCP**) for seamless tool integration.

Meeting Assistant with CrewAI Flow based Automation

CrewAI, Slack API, Python

- Built a meeting assistant using CrewAI to extract action items and tasks from meeting transcripts.
- Integrated Slack API to automatically push extracted tasks and updates to team channels.

Mental Health Insights in the Tech Industry Using Interactive Data Visualization

Streamlit, Python, ETL

- Built an interactive dashboard using Streamlit for visualizing trends in burnout, support, and awareness.
- Applied data exploration and storytelling techniques to highlight key behavioral patterns.

Speech, Music, and Noise Detection System | Python , Flask

- Developed classification model that analyzed audio input into speech, music, or noise.
- Achieved 93.5% validation accuracy.

Efficient Word Finder with File Ranking and Links

C++, Data Structures, Algorithms

- Developed a word search engine with interactive user interface for efficient multi-file word searching and ranking.
- Implemented Ternary Search Tree data structure for optimized word lookups and file location extraction.
- Built file ranking system based on word occurrence frequency to prioritize most relevant results.

Intelligent Driver Drowsiness Detection & Safety System

C++, Arduino, ESP32, Firebase

- Designed drowsiness detection system using computer vision to monitor driver's eye closure patterns and alert mechanisms.
- Programmed ESP32 microcontroller to automatically engage vehicle safety protocols when driver unresponsiveness is detected.
- Implemented hardware integration with motors and sensors for automated vehicle safety feature control.

CERTIFICATIONS

Introduction to Deep Learning & Neural Networks

Coursera

Advanced Learning Algorithms by Andrew Ng

Coursera

SKILLS

Languages: Python, Java, C++

Frameworks: LangChain, LangGraph, TensorFlow, CrewAI, ReactJS

Knowledge: Regression, Classification, ANNs, CNNs

Version Control & Collaboration: Experience in version control using Git and GitHub for collaborative project development

DevOps & Tools: Docker

ACHIEVEMENTS

NUST High Achiever Award 2023

Institution Topper High School

EXTRACURRICULAR ACTIVITIES & COMMUNITY SERVICE

Seminar & Workshop Organizer: Organized various seminars and workshops as part of curricular activities.