SYED ARHUM HUSSAIN

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SUMMARY

Data Scientist and AI/ML Engineer with expertise in fine-tuning LLMs, intelligent chatbot development, and AI Agents using tools like LangChain, RAG, and n8n. Skilled in Python, machine learning, NLP, OCR, and statistical modeling. Strong track record of building scalable, real-world AI solutions with a focus on performance and accuracy. Experienced in deploying scalable AI solutions using FastAPI, MERN Stack and cloud platforms. Proficient in integrating RESTful APIs.

EDUCATION

DHA SUFFA UNIVERSITY

July 2021 - July 2025
(Bachelor of Science in Computer Science)

EXPERIENCE

1) Let's Grow More
  Data Science

17-June 2024-17- Dec 2024

2) Code Soft
  Android App Development Intern

25-Aug-2023-25-Nov-2023

PROJECTS

1) F1 Driver Performance Analysis – 2025 Monaco Grand Prix　　**JAN 2025**

- Analysed race and sprint data using Pandas, Seaborn, and Plotly for performance insights.
- Built a random forest model to predict driver position gains using race metrics.
- Applied feature engineering and KMeans clustering to group drivers by consistency and improvement.

2) CareShare – Medicine & Equipment Donation Platform　　**JUN 2025**

- Built a full-stack platform (MERN) for donating unused medicines and equipment securely.
- Integrated a fine-tuned AI chatbot (OpenAI-based) for smart user assistance and navigation.
- Developed a custom OCR model to extract prescription data for admin verification.
- Applied React.js, Node.js, Express, MongoDB, Firebase, and RESTful APIs for end-to-end functionality.
- Focused on real-world problems in healthcare accessibility, combining AI + Web Development.

SKILLS

- **Languages**: Python, R, Java, JavaScript, SQL, MERN Stack
- **Libraries/ML:** Scikit-learn, TensorFlow, Keras, Pandas, NumPy, OpenCV, Seaborn, Matplotlib
- **AI & Chatbots:** LangChain, RAG, LLMs, Prompt Engineering, OCR, NLP, AI Agents, GenAI, Model Tuning & Fine-Tuning (OpenAI, LLaMA, Hugging Face, Open-Source Keys), Vector DBs (Pinecone, Chroma), N8N, Twilio, NiFi, Zapier
- **Data Science**: Data Cleaning, Feature Engineering, EDA, Statistical Analysis, Hypothesis Testing, A/B Testing, Predictive Modeling,Data Pipelines, Dashboarding (Power BI, Tableau)
- **Tools & Workflow:** Azure ML, Docker GitHub, JIRA, Agile/Scrum, Project Documentation