

# M Farhan Mughal

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## SUMMARY

Aspiring **AI professional** equipped with hands-on experience in **machine learning, deep learning, Agentic Ai and data science**, gained through real-world projects and top-rated certifications. Skilled in **Python** and working with **large language models**. Passionate about transforming complex data into intelligent solutions and exploring the potential of intelligent systems to create meaningful impact.

## EDUCATION

<b>National University of Modern Languages (NUML)</b> <i>Bachelor of Science in Artificial Intelligence</i>	Islamabad, Pakistan Feb. 2022 – Jan. 2026
• Among the top 3% of the batch • CGPA: 3.5 / 4.0	

## EXPERIENCE

<b>Tech-Intern - Knodemy NSTP</b>   (1 Month) ( <a href="#">Link</a> )	Oct 2025
<i>Hybrid</i>	
• Contributed to developing and training AI agents integrated into educational platforms to enhance interactivity and personalized learning experiences. • Organized and facilitated interactive AI learning sessions and workshops for K–12 learners, promoting engagement and understanding of emerging technologies.	
<b>AI developer Intern - Wise Tech</b>   (5 Month) ( <a href="#">Link</a> )	Jan. 25 - June 2025
<i>Hybrid</i>	
• Contributed to the development, optimization, and evaluation of machine learning models, including data preprocessing, feature engineering, and performance tuning. • Conducted data analysis and technical research, demonstrating strong problem-solving skills, clear technical communication, and professional teamwork.	
<b>Subject Guide / Tutor - Bright Head Academy</b>   (6 Months) ( <a href="#">Link</a> )	Jan. 24 – June 2024
<i>Remote</i>	
• Guided and mentored students in Artificial Intelligence, Machine Learning, and Python programming projects, ensuring both theoretical understanding and practical application. • Supported international students (US, UK, Canada, Europe) by supervising projects and simplifying complex AI/ML concepts to improve problem-solving skills and align outcomes with industry standards.	

## PROJECTS

<b>Smart Irrigation System (FYP)</b>   <i>Python, NN, ESP32, Arduino, React Native Mobile App</i>	2025
• Developed <b>Neural-Network model</b> using sensor + WeatherAPI data, achieving 98% irrigation prediction accuracy. • Implemented GPT-powered recommendations, reducing manual intervention.	
<b>Agentic Chatbot with RAG and Tools</b>   <i>LangChain, LangGraph, FAISS, OpenAI, Streamlit</i>	2025
• Developed an <b>agentic AI chatbot</b> capable of retrieving and reasoning over external knowledge using <b>RAG</b> . • Integrated multiple <b>tools and APIs</b> to enable task automation and contextual responses. • Built a <b>Streamlit interface</b> for interactive queries and real-time AI assistance.	

## CERTIFICATIONS

<b>Fine Tune BERT for Text Classification with TensorFlow</b> – <a href="#">Coursera</a>
<b>Introduction to Generative AI</b> – <a href="#">Googlecloud</a>
<b>Python for Everybody</b> – <a href="#">Coursera</a>
<b>Computer Vision and Image Processing</b> – <a href="#">Coursera</a>
<b>Generative AI with AWS</b> – <a href="#">Udacity</a>

## TECHNICAL SKILLS

<b>Programming:</b> Python, R, SQL, C++, Java
<b>ML/DL:</b> Neural Networks, CNNs, RNNs, TensorFlow, PyTorch, Model Optimization
<b>NLP:</b> Text & Speech Processing, Sentiment Analysis, Transformer Models
<b>Big Data/GenAI:</b> Data Mining, Streamlit, LangChain, LangGraph, FastAPI, Pydantic
<b>Tools:</b> Jupyter, Colab, Scikit-Learn, Pandas, NumPy, Matplotlib, Git, Flask, Vertex AI
<b>Automation/ Cloudplatforms:</b> n8n.io, AWS, Sagemaker
<b>Soft Skills:</b> Problem Solving, Analytical Thinking, Teamwork, Communication