



# MUHAMMAD SHOAIB

AI Research Student & Developer | BS Artificial Intelligence, Aror University Sukkur

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## PROFILE SUMMARY

Enthusiastic AI and Machine Learning student with a strong focus on Deep Learning, medical image analysis, and intelligent systems. Interested in applying ML/DL techniques for healthcare, mental health detection, and explainable AI. Actively building projects and research ideas in computer vision, natural language processing, and audio-based analysis to create impactful real-world solutions.

## RESEARCH INTEREST

Machine Learning, Deep Learning, and their applications in Computer Vision, Natural Language Processing, and Speech Technologies, with a particular focus on Medical AI and Mental Health Tech for creating socially impactful and explainable AI systems.

## EDUCATION

BS Artificial Intelligence	2023– Ongoing
Aror University Sukkur	
Intermediate In Science	2020 - 2022

## TECHNICAL SKILLS

**Programming:** Python, C++, Java, HTML/CSS, MySQL

**AI/ML:** TensorFlow, Keras, Scikit-learn, OpenCV, Rasa

**Tools:** Git/GitHub, Jupyter, VS Code, Anaconda, PowerBI, Figma

## CERTIFICATIONS

- Google AI Essentials      Python Programming
- Google Cyber Security      • Web Development
- C++ Fundamentals      • Data Analysis

## RECOMMENDATIONS

**Dr Wazir Ali** Faculty of Emerging Sciences and Technology Assistant Professor & Incharge: Department of Artificial Intelligence  
[wazir.faculty@aror.edu.pk](mailto:wazir.faculty@aror.edu.pk)

**Dr Irfan Ali** Faculty of Emerging Sciences and Technology Assistant Professor & Incharge: Department of Multimedia & Gaming  
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**Mr Abdul Aziz** Faculty of Emerging Sciences and Technology Lecturer, Department of Artificial Intelligence  
[aziz.faculty@aror.edu.pk](mailto:aziz.faculty@aror.edu.pk)

## RESEARCH & PROJECTS

### Alzheimer's Disease Detection (Multimodal + XAI) (Ongoing)

- Conducted research on early Alzheimer's detection using multimodal data (MRI images + textual information). Applied Explainable AI (XAI) to enhance transparency in model predictions. Currently working on a research paper based on this project.

### Facial Emotion Recognition

- Designed a CNN-based deep learning system for classifying emotions from facial expressions. Achieved high accuracy on benchmark datasets and explored real-time deployment for human-computer interaction.

### Sign Language Recognition (Ongoing)

- Built a computer vision model to recognize hand gestures for sign language interpretation. Applied CNNs and image preprocessing techniques to improve classification performance.

### Sentiment Analysis using NLP

- Developed deep learning models (LSTM, Transformers) to classify text sentiment. Compared performance against classical ML models and evaluated results across multiple datasets.

### Fake News Detection

- Implemented NLP-based models (TF-IDF, Word Embeddings, BERT) to detect fake news articles. Focused on improving generalization and robustness against misinformation.

### Chatbot Development (NLP-based)

- Created a context-aware chatbot using sequence-to-sequence and transformer architectures. Enhanced natural response generation for improved user interaction.

### Advanced Regression Models

- Explored and implemented Linear, Polynomial, Lasso, and Ridge regression techniques for multivariate analysis. Conducted performance evaluations and comparisons with real-world datasets.

## SOFT SKILLS

Problem Solving • Leadership • Communication •  
Critical Thinking • Teamwork • Research

## AVAILABILITY

- Research Internships      • AI/ML Collaborations
- Technical Consulting      • Speaking Engagements
- Academic Research Partnerships