

Hammad Shahid — Data Scientist

Gujranwala, Pakistan

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Professional Profile

Strategic and solutions-focused Data Scientist with expertise in Machine Learning, Deep Learning, Computer Vision, and Large Language Models (LLMs). Proven ability to design, develop, and deploy end-to-end AI solutions from research to production. Strong problem-solving skills with a track record of implementing innovative architectures and extracting actionable insights from complex datasets.

Technical Skills

Programming: Python (Advanced), R, Java, PHP
ML Frameworks: PyTorch, TensorFlow, Keras, Scikit-learn, OpenCV, LangChain, HuggingFace
Data Tools: Pandas, NumPy, Matplotlib, Seaborn, Power BI, Tableau
Domains: Computer Vision, NLP, Deep Learning, LLMs, Time Series Analysis

Projects

- Unsupervised Video Object Segmentation (Final Year Project)**2024
 - Designed an unsupervised segmentation system using attention mechanisms and contrastive learning.
 - Improved segmentation accuracy by 3% compared to baseline models on the DAVIS benchmark.
 - Developed a Flask web application with interactive visualization of segmentation results.
- AI-powered Voice Chatbot**2024
 - Implemented a real-time conversational AI using Twilio and OpenAI's GPT-3.5.
 - Engineered a context-aware dialogue system with persistent conversation memory.
 - Deployed a scalable backend using FastAPI, achieving an average 200ms response time.
- Photo Restoration Tool**2024
 - Developed a web application for image enhancement, including denoising, deblurring, and colorization.
 - Developed a hybrid restoration pipeline combining diffusion models and GANs resulting in significant improvements in perceptual image quality.
 - Created an intuitive UI with interactive before-and-after comparison functionality.
- Skin Cancer Detection System**2023
 - Built a predictive model achieving high accuracy on benchmark dermatology datasets.
 - Developed an interactive Dash application for clinical demonstration and analysis.
 - Incorporated explainability features using Grad-CAM visualizations.

Education

- GIFT University***Bachelor of Data Science*
Relevant Coursework: Machine Learning, Deep Learning, Data Mining, StatisticsGujranwala
2021–2025
- Aspire College***Intermediate in Pre-Engineering*Gujranwala
2019–2021

Certifications

- 2023: IBM Data Science Professional Certificate (Coursera)
2023: Deep Learning Specialization (DeepLearning.AI)
2023: Natural Language Processing with Python (University of Michigan)