

# 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 15% 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** **Gujranwala**  
*Bachelor of Data Science* 2021–2025

- Relevant Coursework: Machine Learning, Deep Learning, Data Mining, Statistics

**Aspire College** **Gujranwala**  
*Intermediate in Pre-Engineering* 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)