AHMAD RAZA

AI & COMPUTER VISION ENGINEER

CONTACT

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EDUCATION

- Kyungsung University — Busan, South Korea
  Master of Global IT Engineering
  2024 – Present
  CGPA 4.5/4.5
- GC University Lahore — Pakistan
  Bachelor of Computer Science
  2019-2023
  GPA: 3.6 / 4.0

SKILLS

Deep Learning

- CNNs, U-Net, Residual Networks.

Computer Vision

- Image Restoration (Snow, Haze, Sand-Dust)
- Object Detection (YOLO)
- Image Enhancement & Reconstruction
- Preprocessing & Data Pipelines

Programming

- Python, PyTorch, TensorFlow, OpenCV ,Scikit-learn.

LANGUAGES

- English: Fluent
- Urdu: Native
- Korean: Basic (KIIP level 4)

PROFILE

AI & Computer Vision Engineer specializing in deep learning–based image restoration, enhancement, and computer vision applications. Experienced in developing custom neural networks, feature-fusion architectures, mask-guided reconstruction models, and real-world visual enhancement solutions. Passionate about solving complex image degradation problems such as snow, haze, and sand-dust using state-of-the-art deep learning techniques.

WORK EXPERIENCE

📚 PUBLICATIONS

1. Mask-Guided Residual Reconstruction Network (MGRRN) for Image Desnowing
   Submitted to KCI Journal | 2025
   - Developed a mask-guided deep learning model for snow removal.
   - Used residual reconstruction to restore missing textures and structures.
   - Applied multi-loss optimization (L1, SSIM, VGG perceptual loss).
   - Achieved strong restoration quality on Snow100K datasets.
2. F-Net: Snow Mask Generation Feature-Fusion Network for Image Desnowing
   - Designed a multi-scale feature-fusion architecture for accurate snow mask prediction.
   - Improved snow detection across dense, thin, and large flakes.
   - Achieved high PSNR/SSIM scores on Snow100K benchmarks.
   - Presented as a conference research contribution.
3. Heart Disease Prediction using Ensemble Machine Learning
   - Built an ensemble model combining RF, LR, and DT classifiers.
   - Engineered features to boost diagnostic accuracy.
   - Achieved 93%+ accuracy on the UCI dataset.
   - Published as a conference paper in 2025.

🛠️ PROJECTS

1. DFCRN — Deep Fully Convolutional Regression Network for Haze Removal
   - Implemented regression-based haze removal using transmission map estimation.
   - Enhanced visibility and depth perception in single-image haze.
2. Sand-Dust Image Enhancement (Red & Blue Channels)
   - Built enhancement pipeline using color channel manipulation.
   - Improved clarity and contrast in sandstorm-degraded images.
3. YOLO + DeepSORT Real-Time Object Tracking
   - Developed a real-time person and vehicle tracking system.
   - Integrated YOLOv8 for detection and DeepSORT for identity tracking.