

HAMZA OWAIS

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Professional Summary

Motivated Computer Science student with a strong foundation in Machine Learning, Data Handling, and Python Programming. Experienced in developing AI-powered solutions and ML models for healthcare and classification tasks. Quick learner with problem-solving skills and a passion for applying data science to real-world challenges.

Technical Skills

- **Languages & Tools:** Python, TensorFlow, Scikit-learn, NumPy, Pandas, OpenCV
- **ML Techniques:** Classification, CNN, Transfer Learning, Data Augmentation
- **Other Tools:** GitHub, Firebase, Jupyter Notebook
- **Soft Skills:** Problem Solving, Team Collaboration, Critical Thinking

Machine Learning Projects

• 🔗 **AI-Based Eye Health Diagnostic App – OptiHealth**

Tools Used: React Native, Python, TensorFlow

- Developed a mobile app to detect and diagnose 40+ eye-related diseases using fundus images.
- Integrated machine learning models to classify images and deliver personalized recommendations.
- Used Firebase for backend services and ensured cross-platform support with React Native.

• 🔗 **Skin Cancer Classification**

Tools Used: TensorFlow, Transfer Learning, ISIC Dataset

- Built a CNN model to classify dermoscopic images into benign and malignant categories.
- Achieved 85% accuracy using transfer learning and data augmentation.
- Evaluated performance using precision, recall, and confusion matrix.

Certifications

- **Machine Learning & Data Mining – NAVTTC**

Learned Python programming, supervised/unsupervised learning, CNNs, TensorFlow, and Scikit-learn.

Education

BS in Computer Science

Sir Syed University of Engineering & Technology – (2021–2025)

CGPA: 3.5

Intermediate in Pre-Engineering

Fatimiyah Boys College – (2018–2020)

Languages

- English – Fluent
- Urdu – Native