Mohammed Amaan

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Career Objective

Final semester MCA student with a solid foundation in Python, Statistics, and Machine Learning. Hands-on experience in Deep Learning and Computer Vision. Eager to solve real-world problems through data-driven methods. Open to opportunities in Data Science, Machine Learning, or Applied Vision Engineering.

Technical Skills

Languages: Python

Libraries/Frameworks: OpenCV, TensorFlow, Keras, Scikit-learn, NumPy, pandas

ML/DL Concepts: Classical ML (Logistic Regression to XGBoost), CNNs, U-Net, Transfer Learning (ResNet, MobileNet, Inception, EfficientNet)

Tools: Jupyter, VS Code, Google Colab

Other: Image Processing, EDA, SHAP

Projects

Fundus Disease Classification – Classified fundus images (Normal, Glaucoma, Cataract, Diabetic Retinopathy) using MobileNet V2 with fine-tuning. Achieved ~88% accuracy. Grad-CAM for interpretability.

Heart Disease Prediction – ML models (SVM, RF, XGBoost) trained on UCI dataset. Final model: SVM (RBF), ~84% accuracy. Used SHAP for explainability.

Retinal Vessel Segmentation – Custom U-Net on Kaggle dataset for blood vessel segmentation. Evaluated via Dice score & IoU. Achieved smooth boundaries and clinically relevant outputs.

Education

MCA, Aurora PG College, Hyderabad — Expected 2025

B.Com (Computer Applications), AV College, Hyderabad — 2023

Certifications

HackerRank Certified in Python (Basic)