Mohammed Amaan

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GitHub: https://github.com/Amaan-developpeur

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

1) Fundus Disease Classification – Classified fundus images (Normal, Glaucoma, Cataract, Diabetic Retinopathy) using MobileNet V2 with fine-tuning. Achieved ~88% accuracy. Grad-CAM for interpretability. [https://github.com/Amaan-developpeur/fundus-image-disease-classification]
2) Heart Disease Prediction – ML models (SVM, RF, XGBoost) trained on UCI dataset. Final model: SVM (RBF), ~84% accuracy. Used SHAP for explainability. [https://github.com/Amaan-developpeur/heart-disease-predictor]
3) 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. [https://github.com/Amaan-developpeur/retinal-vessel-segmentation]
4) Developed a rule-based Simple Reflex Agent in Python simulating condition-action logic within a 2D environment, demonstrating foundational AI agent behavior.

   [https://github.com/Amaan-developpeur/simple_reflex_ai_agent]

Education

MCA, Aurora PG College, Hyderabad — Expected 2025

B.Com (Computer Applications), AV College of Arts Science & Commerce, Hyderabad — 2023

Certifications

HackerRank Certified in Python (Basic)