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Amir Aziz

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Data Scientist

📍 UET Peshawar, Pakistan

PROFESSIONAL SUMMARY

Detail-oriented and highly motivated Data Science student with practical experience in Computer Vision, including object detection and segmentation using YOLOv5/YOLOv8 and OpenCV. Proficient in Python for data analysis, preprocessing, and cleaning, with a solid understanding of AI model deployment in real-world applications. Skilled in leveraging tools such as Roboflow, Hugging Face, SQL, and MongoDB. Demonstrated ability to build end-to-end solutions with front-end integration using HTML, CSS, and JavaScript. Strong problem-solving skills and a passion for developing intelligent, data-driven systems.

WORK EXPERIENCE

COMPUTER VISION INTERN — NCAI, UET PESHAWAR

August 2024 – June 2025

- Worked on real-time computer vision applications including object detection and segmentation using YOLOv5 and YOLOv8.
- Preprocessed and annotated datasets using Roboflow for various CV projects.
- Assisted in developing model pipelines for image classification and vehicle detection tasks.
- Performed model evaluation and tuning for improved accuracy.

PROJECTS

1. **Flood Detection & Segmentation:** Built a model to detect and segment flood regions in satellite imagery using deep learning and computer vision techniques.
2. **Weapon Detection System:** Developed a real-time system to detect weapons in CCTV footage using YOLOv8, suitable for surveillance applications.
3. **Emotion Detection:** Implemented a facial emotion recognition system using CNNs and OpenCV.
4. **Vehicle Detection System:** Created a YOLOv5-based solution for vehicle detection in traffic monitoring.
5. **Play Store App Analysis:** Conducted a comprehensive data analysis project using Python and data visualization tools to uncover trends in mobile apps.
6. **End-to-End AI Integrations:** Designed and deployed several AI solutions that included backend models and basic frontend interfaces using HTML, CSS, and JS.

SKILLS

1. **Programming Languages:** Python, SQL, JavaScript
2. **Databases:** SQL, MongoDB
3. **Computer Vision:** YOLOv5, YOLOv8, OpenCV, Roboflow
4. **Machine Learning Tools:** Hugging Face, Scikit-learn, Pandas
5. **Frontend:** HTML, CSS, JavaScript
6. **Soft Skills:** Documentation, collaboration, problem-solving

EDUCATION



University of Engineering and technology Peshawar

Bachelor of Data Science (BS)