Rafay Adeel

Faisalabad • +92~302~3966541 • rafayadeel1999@gmail.com GitHub • Portfolio

Objective

Final-year CS student with Python scripting, AI, and web development experience, Seeking a hands-on internship to apply my skills in AI, machine learning, and secure software development, with a focus on image processing and data-driven solutions.

Education

BS (Computer Science), FAST NUCES — GPA: 3.63

Projects

- CipherLab (Streamlit, Python) Developed a web app implementing ciphers (Caesar, Vigenère, Hill) where users can input plaintext and view step-by-step encryption. Modular design for easy extensions.
- NoiseLab (Streamlit, Python) Interactive app for exploring image noise, with real-time noise removal and addition, and educational modules on image denoising theory.
- X-ray Image Enhancement (Streamlit, OpenCV, Python) Enhanced X-ray images using Gamma Correction, Histogram Equalization, and Contrast Stretching for better medical analysis.
- Spatial Filtering (Streamlit, Python, OpenCV) Built an app for spatial filtering techniques (smoothing and sharpening filters) in image processing, with real-time visual comparisons for noise reduction and edge detection
- Blog Summariser Web App (Next.js, Tailwind CSS, Shadcn UI, Supabase, MongoDB) –Full-stack app that scrapes blog content, generates summaries, translates to Urdu, and stores data in Supabase and MongoDB. Built with Next.js and Tailwind CSS.
- Quote Generator (Next.js, Tailwind CSS, Shadcn UI) A web app allowing users to view and share random quotes from a curated collection.
- Growvy Redesign (HTML, CSS, JavaScript) Redesigned an existing 6-page website, improving layout and visual appeal using HTML, CSS, and JavaScript. Enhanced user experience through modern web design practices.
- Airline Management System (C#, SQL) Created a Windows Forms app managing airline operations such as ticket reservation, flight scheduling, and maintenance tracking, involving database management and user interface design.
- Transport Management System (C++) Developed an OOP-based platform allowing customers to book rides or transport goods with driver acceptance workflow, focusing on object-oriented design and system logic.

Skills & Interests

Languages/Tools: Python, C, C++, C#, SQL, JavaScript, HTML/CSS, Oracle, VS Code, R, MS Office Machine Learning/AI: TensorFlow, PyTorch, OpenCV, Scikit-learn, Pandas, NumPy

Tools/Technologies: Git, Docker, Jupyter, Streamlit, Tailwind CSS

Interests: Software Development, AI ML, Image Processing, Data Science, Web Development, DevOps

Teaching Assistantships

• PF • OOP • Linear Algebra • Software Design • Database Systems

Achievements & Certifications

- IBM: Python for AI & Data Science
- Google: Cybersecurity, Project Management, Analytics, IT Support
- Dean's List Fall '22 to Fall '24 Silver Medal Fall '22

Volunteering & Leadership

- TEDxFAST Volunteer
- Management Daira & Job Fair '23, '24, '25
- Event Lead Daira 2025