Muhammad Daniyal Saffi

Computer Scientist

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Computer Science student with a strong foundation in AI, Machine Learning, and Computer Vision—currently leading an innovative final year project on honey bee health monitoring using image-based analysis. Proficient in Cybersecurity, Networking, Python programming, and Data Analysis, with a passion for building user-friendly tech solutions. Proven leadership and communication skills through teaching assistantships, internships, and event coordination roles.

EDUCATION

BS Computer Science
Namal University Mianwali
11/2021 - 07/2025 *Punjab, Pakistan*

ICS & Matric
Punjab Daanish School Boys Mianwali
03/2014 - 03/2021 *Punjab, Pakistan*

SKILLS

Problem Solving | Python | AI/ML | Model Training | Computer Vision | Leadership | Data Cleaning | Data Visualization | Team Lead | Computer Networking | SIEM Solutions | Wazuh | Cisco Packet Tracer | Team Work | UI/UX

PERSONAL PROJECTS

Honeybee Health Detection and Population Analysis
- Final Year Project in collaboration with the SAWAiE Ecosystem: Developed an AI system that utilizes image processing to detect health issues in honeybees and assess colony strength.

Building an Open-Source SIEM Solution for Enhanced Security
- Collaborated on a security project using Wazuh, Grafana, Suricata, and MISP to build a threat detection system. Set up a virtualized Linux environment, configured Wazuh agents, and built real-time dashboards. Handled deep packet inspection, threat intel integration, and resolved major technical issues.

Urdu Ligature Detection and Character Prediction Using Deep Learning
- Built an OCR system for Urdu using CNNs and RNNs, trained on Noto Naskh Arabic and Jameel Noori Nastaleeq fonts with data augmentation. Enhanced Urdu text digitization through reliable ligature and character recognition.

• Python CustomTKINTER Network Tool
- Beginner-Friendly Interface for Exploring Custom Networks & Protocols

• Build Facebook
- Developed a Python OOP project with a Tkinter-based GUI, featuring both frontend and backend functionality to simulate core Facebook-like features.

CIFAR-10 Image Classification using Traditional CNN and ResNet Architectures
- Built and evaluated CNN and ResNet models for CIFAR-10 image classification, improving accuracy by optimizing network layers, deep learning design, data partitioning, and model tuning.

Designed an ERD for PSL database.
- Created a detailed Entity-Relationship Diagram (ERD) to model the PSL database structure, capturing teams, players, matches, and stats relationships.

ACHIEVEMENTS

3rd Position – Codex 2.0 Coding Competition (12/2024)
Secured 3rd place among 50+ teams from 13 top universities at Codex 2.0, organized by Namal Computing Society at Namal University, Mianwali.

ORGANIZATIONS

Teacher Assistant at Namal University Mianwali (08/2024 - 02/2025)
Assisted in teaching Discrete Structures for first-year Computer Science students, supporting course preparation, conducting tutorials, and providing guidance to students both sections A and B.

Bytewise Limited, Cyber Security Fellow (06/2024 - 09/2024)
Completed a three-month intensive cybersecurity fellowship, where I gained practical experience and theoretical knowledge. I collaborated with mentors and peers, enhancing my skills through real-world assignments and valuable feedback.

KaiRiz Cyber Technologies (SMC-Private) Limited (06/2024 - 07/2024)
As a Cyber Security Intern at KaiRiz Cyber Technologies (SMC-Private) Limited, I gained practical experience in cybersecurity, contributed to innovative projects, and collaborated with a remote team to enhance my technical skills and work ethic in a dynamic, fast-paced environment.

Namal Society for Social Impact (NSSI) (03/2022 - 09/2023)
Member of Educational Wing *Collaborated with NSSI to educate underprivileged children, focusing on their academic and personal development as a volunteer.*

Serve for Humanity (SFH) (02/2023 - Present)
Event Coordinator