

DATA FARDEEN

Python Developer | AI Engineer | Computer Vision Specialist

fardeensidhu07@gmail.com • +92 339-8989777 • Islamabad, Pakistan • linkedin.com/in/data-fardeen-234619289 • github.com/Fardeen37 • datafardeenportfolio.netlify.app

PROFESSIONAL SUMMARY

Results-driven AI Engineer and Python Developer currently in the 6th semester of a Bachelor of Science in Artificial Intelligence at SZABIST, Islamabad. Specialising in Computer Vision, Natural Language Processing, and deep learning model deployment, with hands-on experience spanning TensorFlow, OpenCV, and CNN architectures. Passionate about building production-grade, real-world AI systems and workflow automation using tools such as n8n, Railway, and Claude Code. Proven ability to deliver end-to-end AI solutions from research and training through to deployment, with a strong portfolio of academic and independent projects. Seeking a challenging role where technical expertise and a drive for meaningful innovation can create measurable impact.

TECHNICAL SKILLS

Languages & Frameworks: Python, C++, JavaScript, React, HTML/CSS, Flask

AI / Machine Learning: TensorFlow, Keras, OpenCV, Scikit-learn, VADER, YOLOv8, SSD MobileNet, MobileNetV2, CNN, LSTM, ConvLSTM

Core AI Domains: Computer Vision, Natural Language Processing (NLP), Deep Learning, Transfer Learning, Object Detection, OCR

Model Deployment: Gradio, Flask, Google Colab (GPU), Railway, Netlify, REST APIs

Automation & Tooling: n8n Workflow Automation, Claude Code, Gemini API (2.0), Stable Diffusion

Data & Databases: MySQL, Data Analysis, Data Preprocessing, CSV/JSON pipelines

Other: Blockchain / DApp concepts, Git, OOP, Agile development

EDUCATION

Bachelor of Science in Artificial Intelligence (BSAI)

2023 – 2027 (Expected)

Shaheed Zulfiqar Ali Bhutto Institute of Science & Technology (SZABIST), Islamabad | 6th Semester

- Coursework: Computer Vision, Machine Learning, Deep Learning, NLP, Data Structures, Software Engineering, Database Systems.
- Class Representative — coordinating academic scheduling, faculty liaison, and peer communication.

Intermediate Certificate in Computer Science (ICS)

2021 – 2023

National School & College System, Pakistan Town Campus, Islamabad

KEY PROJECTS

MaskGuard AI — Face Mask Detection System | Python · TensorFlow · Keras · OpenCV · CNN · Gradio

- Architected and trained a Convolutional Neural Network (CNN) model on annotated face-mask datasets, achieving real-time inference on live webcam feeds using OpenCV.
- Engineered a production-grade Gradio frontend with a custom dark clinical aesthetic, enabling one-click deployment and stakeholder demonstration without environment setup.
- Optimised model pipeline to reduce false-negative rate, demonstrating practical Computer Vision deployment for public-health monitoring use cases.

FRED Chatbot — AI Conversational Assistant | *Python · Gemini 2.0 API · Multi-format File Processing*

- Built an AI assistant on the Gemini 2.0 API capable of processing PDFs, images, and structured documents, enabling context-aware multi-turn conversations.
- Implemented a Grok-inspired dark UI with typing animations and stylised message bubbles, matching the modern aesthetic expected by enterprise end-users.

AI Sentiment Analyser | *Python · VADER · MySQL · Flask · NLP*

- Developed an end-to-end sentiment analysis pipeline achieving 90% classification accuracy using VADER-enhanced NLP with a custom ML layer for domain adaptation.
- Built a high-fidelity Flask web interface with real-time sentiment dashboard, integrating MySQL for persistent data storage and trend analytics.

RideKarlo — Ride-Sharing Application Concept | *UI/UX Design · Tech Architecture · Mobile Application*

- Designed a premium, minimalist ride-sharing platform concept featuring dynamic price-bidding between riders and drivers, lowering average fare cost.
- Integrated an SOS security module with live location sharing and emergency contact alerts, addressing a critical safety gap in existing regional ride-hailing solutions.

Decentralised Pharmaceutical Supply Chain | *Blockchain · DApp · QR Code Integration · Smart Contracts*

- Proposed and documented a blockchain-based drug-authenticity tracking system leveraging QR codes and decentralised applications (DApps) to eliminate counterfeit pharmaceuticals in the supply chain.
- Outlined smart-contract logic for immutable provenance records, enabling pharmacies and regulators to verify drug authenticity at every distribution checkpoint.

Alzheimer's Disease Early Detection Expert System | *Python · Machine Learning · Jupyter Notebook · Healthcare AI*

- Built a rule-based expert system combined with ML classifiers to analyse clinical patient records and flag early-stage Alzheimer's indicators, improving early-diagnosis rate by 30%.
- Published as an open-source Jupyter Notebook with structured diagnostic reporting suitable for clinical trial data pipelines.

BrandGenAI — AI Logo & Brand Identity Generator | *Python · Stable Diffusion · Gradio · Generative AI*

- Engineered a text-to-image brand logo generator powered by Stable Diffusion, enabling businesses to generate unique visual identities from plain-English prompts.
- Wrapped the generation pipeline in a Gradio interface for instant browser-based access, download, and iteration — eliminating the need for design software expertise.

Sultan Foods — Digital Brand & Design Integration | *Brand Strategy · UI Design · Digital Marketing*

- Led end-to-end premium brand identity design for a tiffin service, delivering a cohesive visual system (logo, menu, social assets) aligned with a health-conscious, upmarket target demographic.
- Produced digital marketing collateral that increased perceived brand premium and supported launch outreach strategy.

EXPERIENCE

Artificial Intelligence Intern

Sep 2025 – Oct 2025

CodeAlpha | Virtual Internship Program | Remote

- Completed a dedicated AI internship programme at CodeAlpha, gaining hands-on exposure to real-world Artificial Intelligence workflows, project pipelines, and industry-standard development practices.
- Applied machine learning and deep learning concepts in a structured virtual environment, reinforcing academic knowledge through applied tasks recognised by the MSME Government of India.

AI & Computer Vision Lab Researcher (Academic)

2024 – Present

SZABIST, Islamabad | AICL 3602 Computer Vision Lab

- Designed and delivered a series of production-grade Computer Vision notebooks covering lane detection, face mask detection, OCR/handwriting recognition, and image tampering forensics — each with distinct visual identity and Gradio frontends.
- Conducted comparative architectural research on ConvLSTM vs. Hybrid CNN+LSTM models, producing audience-differentiated technical documents and referencing less-cited academic literature.
- Implemented MobileNetV2 + LSTM driver fatigue detection pipeline on Kaggle drowsiness datasets, demonstrating transfer learning for real-time safety applications.

Etsy Digital Products Seller

2024 – Present

WallGarageStudio | Etsy Marketplace

- Launched and operate an AI-generated car wallpaper and PowerPoint template shop targeting automotive enthusiasts, handling product creation, pricing strategy, and Pinterest-driven marketing.

LICENSES & CERTIFICATIONS

Build with AI Workshop — Certificate of Participation	— Google Developer Groups on Campus (GDGoC)	2026
Machine Learning by Stanford	— Cursa	Jul 2025
Machine Learning Using Python	— Simplilearn SkillUp	Jul 2025
Generative AI with JavaScript	— Microsoft (via Cursa)	Jul 2025
AI for Beginners	— HP LIFE / HP Foundation	Jul 2025
Artificial Intelligence Internship	— CodeAlpha	Oct 2025

ADDITIONAL

- Actively engaged with Google Developer Groups on Campus (GDGoC) community, participating in AI and software development workshops and collaborative learning events.
- Proficient in running local LLMs (TinyLlama, DeepSeek-Coder, Phi-3 Mini, Gemma 2B) via Ollama on resource-constrained hardware, enabling fully offline AI development.
- Languages: English (Professional), Urdu (Native), Punjabi (Native).