

# MUTIULLAH HANEEF

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## SUMMARY

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Software Engineering student with hands-on experience building AI-powered solutions — computer vision systems, predictive models, and production-ready data tools achieving 84–87% accuracy. Certified Data Scientist (IBA Sukkur, completed in 2 months) seeking a data science internship to deliver measurable impact.

## EDUCATION

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### Bachelor of Engineering in Software Engineering

Sep 2023 – May 2027 (Expected)

Mehran University of Engineering and Technology, Jamshoro, Pakistan

GPA: 3.56/4.0 (Current Semester) Cumulative GPA: 3.07/4.0

Relevant Coursework: Data Structures & Algorithms, Database Systems, Software Design

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, SQL

**Data Science & ML:** Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, OpenCV, YOLOv8, MediaPipe, Deep Learning

**AI & LLMs:** Google Gemini Pro, Streamlit, Plotly, REST APIs, Flask

**Databases:** MongoDB, MySQL, SQLite

**Tools & Platforms:** Git, GitHub, Jupyter Notebook, Google Colab, VS Code, PyCharm, CUDA

## PROJECTS

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### CleanFlow AI — Intelligent Data Cleaning SaaS | Python, Streamlit, Pandas, Google Gemini Pro, Plotly 2025

- Engineered a full-stack SaaS data-cleaning studio powered by Google Gemini Pro, combining LLM semantic reasoning with heuristic algorithms for context-aware cleaning recommendations.
- Designed a composite Data Health Score (0–100) across 5 quality dimensions: Completeness, Consistency, Uniqueness, Validity, and Shape, visualized via interactive Plotly Radar and Heatmap charts.
- Built a Professional Cleaning Studio with Undo/Redo state management, full audit logging, and an export pipeline supporting CSV, Excel, JSON, and Parquet formats.
- Implemented a modular, decoupled architecture (ai\_engine, cleaner, profiler, charts) designed for migration to FastAPI/Django at scale.

### Automated EDA & Data Preprocessing Pipeline | Python, Pandas, NumPy

Sep 2024 – Oct 2024

- Engineered an automation tool reducing data cleaning workflow time from 4 hours to 90 minutes — a 62% improvement in processing speed.
- Implemented smart imputation strategies, outlier detection algorithms (IQR, Z-score), and auto-generated visualization reports.
- Designed a modular, reusable architecture deployable across multiple datasets and industry domains.

### Multi-Class Firearm Detection System — YOLOv8n | Python, YOLOv8, OpenCV, ONNX, Computer Vision

Nov 2024 – Dec 2024

- Built a lightweight CNN-based surveillance model classifying 6 firearm categories (pistol, rifle, shotgun, sniper rifle, machine gun, revolver) with 87% mAP@50 accuracy.
- Optimized inference to 24 FPS on standard hardware; exported to ONNX INT8 achieving ~20ms/image on CPU — 4× speed gain with <2% accuracy loss.
- Integrated automated threat-alert mechanism and supported NVIDIA TensorRT export for edge deployment on Jetson hardware.

### A.E.G.I.S — Adaptive Eye & Gaze Intelligence System | Python, YOLOv8, MediaPipe, OpenCV, CustomTkinter,

CUDA

2025

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- Fused YOLOv8 Nano + MediaPipe Face Mesh into a Temporal Attention Engine for real-time gaze and shouldersurfer detection with sub-200ms threat response on Windows.
- Architected a 5-state FSM event-driven system with adaptive ML thresholds, multi-monitor cloaking, CUDA GPU support, and SQLite analytics dashboard.
- Delivered a production-grade Windows installer for seamless end-user deployment.

## WORK EXPERIENCE

### Event Organizer | Marketing Lead || Technical Lead

Sep 2024 – Present

*Google Developer Groups on Campus (GDSC) — Mehran University, Jamshoro, Pakistan*

- Served in 3 simultaneous leadership roles — Event Organizer, Marketing Lead, and Technical Lead — driving end-to-end delivery of community initiatives for 200+ students.
- As Technical Lead, spearheaded 3 major AI/ML events, technical workshops, and coding competitions, delivering hands-on content in machine learning, data science, and software engineering.
- As Marketing Lead, developed outreach strategies and promotional campaigns that grew event attendance and expanded the GDSC chapter's visibility across campus.

## ACHIEVEMENTS & CERTIFICATIONS

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**First Place Winner — MUET Innovation Hackathon 2025**

Jan 2025

**Data Science Professional Certificate — Sukkur IBA University**

Completed in 2 months.