

MOHAMMED GHOUSE MOHIUDDIN

Hyderabad, Telangana|+91-8712265317|

TECHNICAL SKILLS

- Power BI (Reports, Dashboards, Decision Making)
- SQL (Queries, Joins, Stored Procedures, Optimization)
- Power Query (ETL, Data Transformation)
- Power BI Service (Publishing, Scheduling, Row-Level Security)
- Python OOPs
- Fast API & Streamlit Frameworks
- KPI & Metrics Development
- Data Visualization & Storytelling
- Python Libraries (Pandas, NumPy, Matplotlib, Scikitlearn, Pytorch)
- Data Cleansing & Preparation (Excel, Power Query)
- Machine learning Algorithm and Library (SVM, KNN, Decision Tree, CNN, Open CV, Linear regression, YOLOv5/v8)

PROFESSIONAL EXPERIENCE

Hackathon Experience

- Secured **top positions** in multiple **national and global hackathons** hosted by leading companies, demonstrating strong **technical proficiency**, **problem-solving**, and **collaborative skills** under high-pressure environments.
- Successfully developed innovative solutions in areas like **IoT-based health monitoring**, **ML-powered diagnosis**, and **real-time alert systems** (e.g., *PulsePredict* project).
- Recognized for effective **team leadership**, rapid **prototyping**, and technical execution from ideation to deployment.

Campus Ambassador

- Represented reputed **tech communities and startups** by promoting technical events, workshops, and hackathons across campus.
- Facilitated student engagement through **outreach campaigns**, social media, and peer networking, contributing to increased participation and awareness.

Internship – MS Scrap Recyclers

- Gained hands-on experience building a real-time scrap detection system using YOLOv5, CNN models and integrated OpenCV for live camera feed analysis, enhancing visual scrap classification tasks.
- Explored the full ML workflow from dataset collection and labelling to model training and testing. Worked on images of plastic, iron, cardboard, motors, and non-recyclables with custom deep learning models.
- The internship experience was truly insightful and helped me understand real-world ML applications. Also supported staff in minor improvements, combining tech with ground-level understanding of the process.

PROJECTS

HR Data Cleaning & Analytics Dashboard

- Cleaned and pre-processed raw HR data using Python (Pandas) to handle missing values, standardize formats, and remove inconsistencies.
- Developed an interactive Power BI dashboard with insights on workforce demographics, salary trends, and attrition patterns.
- Enabled data-driven HR decision-making through dynamic visualizations and filters for better organizational understanding

Scrap Detection System

- Designed and deployed a real-time scrap detection system using YOLOv5 and CNN, trained on a self-curated dataset of recyclable and non-recyclable materials.
- Integrated OpenCV with live camera feeds to enable on-the-spot classification of waste, optimizing material sorting workflows.
- Achieved high-accuracy detection of plastic, iron, cardboard, and mixed scrap, contributing to smarter and sustainable waste management solutions.

PulsePredict – IoT-based Arrhythmia Detection System

- Developed a real-time heart monitoring system using ECG signal processing and an SVM classifier to detect arrhythmias with 81.2% testing accuracy.
- Integrated a Flask web app for user interaction and implemented Telegram bot alerts for emergency notifications.
- Applied advanced preprocessing techniques like Bandpass Filtering, Wavelet Transform, and ICA for accurate feature extraction.
- Used the MIT-BIH Arrhythmia dataset and evaluated model performance with F1-score, precision, and recall.

Designed with a focus on remote healthcare support for elderly and high-risk patients.

EDUCATION

Lords Institute of Engineering & Technology, Hyderabad [2023-2027]

B.E in Computer Science

St. Joseph's Public School, Hyderabad.

ICSE XIIth [2021-2023]

St. Joseph's Public School, Hyderabad.

ICSE Xth [2009-2021]

❖ All project source code and documentation are available on my **GitHub** and **LinkedIn** profiles.

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<https://github.com/mohammed-ghouse-99>