MOHAMMED GHOUSE MOHIUDDIN

Hyderabad, Telangana|+91 8712265317| View my Portfolio

TECHNICAL SKILLS

- **Python (OOPs)** – Classes, objects, inheritance & modular coding
- **SQL** – Basic queries, joins & simple database operations
- **Power BI** – Basic reports, dashboards & data visualization
- **Pandas & NumPy** – Basic data manipulation and numerical operations
- **Git & GitHub** – Version control, managing project repositories, collaboration
- **Streamlit Frameworks -** Basic Frontend for Projects
- **Deployment** – Model saving/loading, websites hosting, basic environment setup.
- **Object Detection** – Familiarity with YOLOv5/YOLOv8 models.
- **Hugging Face & OpenAI** – Used NLP models and GPT APIs for text analysis and automation.
- **Machine Learning Algorithm and Library** (SVM, KNN, Decision Tree, CNN, Open CV, Linear regression

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.

Stock Predicta – AIML-Based Stock Trend Detection System

- Developed an ML-based system to predict **Uptrend/Downtrend** using RandomForest and technical indicators.
- Implemented a rule-based engine using **SMA, RSI, MACD, ATR, Momentum, and Price Action** for reliable trend classification.
- Integrated real-time market data through **Yahoo Finance API** and automated indicator generation.
- Built an interactive **Streamlit dashboard** with candlestick charts, RSI visualizations, and ML predictions.
- Improved prediction stability using indicator engineering, confidence scoring, and cross-validation.

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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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