

Umar Shafiq Ahmad

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Work Experience

Data Analyst • Hitachi Payment Services Pvt. Ltd.

July 2024 - June 2025 | Mumbai

- Built a Python-based **Cash Logistics cost analysis scheduler** to evaluate 2 months of Sunday/holiday indent data, categorizing manual vs system-generated cases. Flagged **15%+ avoidable indents**, reducing CIT costs by **~10%** via automated root cause detection and HTML-based account-level reports.
- Developed Python-based diagnostic tools to flag **faulty cassette configurations** in live ATMs. Enabled real-time alerts for the operations team, leading to **faster issue resolution**, a **15%+ reduction in ATM cash outs**, minimized penalty incidents, and a measurable **increase in revenue retention**.
- Engineered ATM evacuation forecast scripts for **10-day planning**, accounting for weekday/weekend trends. Eliminated repetitive manual Excel work by **~40%**, enabling faster ops planning.
- Built **SBI-specific 30-day forecasts** using rolling dispense data to align with logistics targets, Root-cause analysis tools for forecast failures and monitoring ETL pipelines supporting daily cash out analysis.

Machine Learning Engineer • Ramdisk Bangaluru

- Deployed and fine-tuned **Yolo models** for desktop-based real-time object detection using Python and OpenCV, achieving **75%+ accuracy** with sub-200ms latency on live video feeds.
- Developed and integrated **TensorFlow Lite-based helmet detection system** on Raspberry Pi, optimized for low-power environments, reducing safety violation detection time by **~40%** in real-world conditions.
- Built custom image classification models using **TensorFlow**, achieving **>85% accuracy** on multi-class datasets for Android apps, with efficient deployment through **on-device inference**.

IOT + Quality Improvement Intern • Bajaj Auto Ltd.

- Spearheaded IoT integration for shop-floor machinery, improving equipment uptime by 15%.
- Analyzed CTQ parameters, boosting defect detection accuracy by 20%.
- Reduced quality inspection turnaround time by 25% via Thingworks-based automation.

Machine Learning Intern • Plastic Water Labs

- Developed ML model for defect detection, increasing detection speed by 3x enhancing quality control.

Publication • An Android based Embedded modified Iterative Fusion Deep Neural Network for Automated Detection of Macular Diseases using OCT Images.

Skills

- TECH STACK:** Python, OpenCV, TensorFlow, PyTorch, Scikit-learn, Deep Learning, Computer Vision, AI, ML, Transformers, LangChain, LangGraph, Generative AI, CI-CD Pipelines, API Development, EDA, ETL
- TOOLS:** MS SQL Server, Power BI, Git, GitHub, GitHub Actions, Azure, Docker, Adv Excel
- Soft Skills:** Analytical Thinking, Planner, Positive Attitude, Time Management, Problem Solving

Education

BITS PILANI | B.E. (HONS) | GPA: 7.6 | 2018-2022

Mount Litera Zee School | XII in Science - 92% | X in General - GPA: 10