Lakshya Karira

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PROJECTS

Apex MLOps Auto-Trainer
Configuration-Driven MLOps Platform
- Built an end-to-end **MLOps platform** to orchestrate training, evaluation, and deployment pipelines
- Used **GitHub Actions** as a serverless automation engine for model retraining workflows
- Containerized champion models using **Docker** and monitored **data drift**
- Developed a **React + Node.js dashboard** for pipeline triggers and lifecycle monitoring

Privacy Sentinel Aadhaar Anomaly Detection System
AI Governance & Privacy-Preserving Analytics
- Designed a **Hybrid Anomaly Detection Engine** combining statistical **Z-Score analysis** with **Isolation Forest** to detect behavioral anomalies in digital identity systems
- Analyzed **4.9 million Aadhaar records** using **GPU-accelerated computation (NVIDIA Tesla P100)**, identifying **1.55% critical-risk anomalies** with reduced false positives
- Detected complex patterns including **impossible update velocities**, synthetic demographic signatures, and temporal irregularities
- Built a **React (Vite) dashboard** with Recharts to visualize risk distributions, enabling an **early-warning, privacy-preserving governance system**

Smart Park
Real-Time Parking Reservation System
- Developed a **Node.js + Express backend** with MongoDB for real-time parking reservations
- Handled **concurrent slot booking** and implemented secure REST APIs
- Designed scalable database schemas and validation logic for production use

SKILLS

Languages: Java, Python, JavaScript
Full Stack: React.js, Node.js, Express.js, MongoDB, HTML/CSS, REST APIs, JWT
Machine Learning & NLP: PyTorch, Scikit-learn, NumPy, Pandas, FastAPI, NLP (Tokenization, TF-IDF, Embeddings, RNNs, Attention Mechanisms, Transformers)
Tools: Git, GitHub, Postman, Github Actions, Docker
Concepts: Data Structures and Algorithms (Foundations)

ACHIEVEMENTS

3rd Place Inter-College Hackathon   Dec 2024
DSCE
- Built an **AI-based Driver Assistance System** using **YOLO and OpenCV**
- Implemented real-time detection of **driver dizziness and obstacles** with alert mechanisms

EDUCATION

Dayananda Sagar College of Engineering (DSCE)   Expected Aug 2028
Bachelor of Engineering in Computer Science   Bengaluru, India

Jim Corbett Public School   Agra, India
Higher Secondary Education