MONIT KUMAR JANGIR

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EDUCATION

Manipal University Jaipur   2021 - 2025

Bachelor of Technology - CSE Hons. IOT and Intelligence

EXPERIENCE

Delhi Metro Rail Corporation (DMRC) - ED/IT Intern, New Delhi, India   June 2024 - August 2024

- **Developed real-time interactive dashboards using Python, Power BI, and Dash** to analyze Apache log data, significantly improving operational visibility and system monitoring.
- Reduced **resource utilization by 20%** by optimizing dashboard performance and minimizing redundant queries through efficient data transformations.
- **Designed a security monitoring system** that proactively flagged suspicious user behavior based on custom-defined heuristics and real-time log parsing.

PROJECTS

Security Assistance System for Manual Wheelchair (IoT-Based)

- Developed an IoT-enabled system for real-time monitoring and alerting to enhance wheelchair safety.
- Integrated sensors and communication modules for remote operation and data logging

Resume Optimizer Agent

- Built a **Streamlit-based web app using Mistral AI** to tailor resumes for specific job descriptions, analyze resume quality, and assess interview readiness.
- Integrated **PDF parsing, keyword matching, AI feedback generation, and resume scoring** to deliver personalized career guidance.
- Added an interview readiness module generating behavioral and technical questions with sample answers.
- Deployed using GitHub + Streamlit Community Cloud with secure API key handling and responsive UI.
- Tech Stack: Python, Streamlit, Mistral API, ReportLab, PyMuPDF, Git

Maximizing UAV Fog Deployment Efficiency for Critical Rescue Operations   **Ongoing**

- Conducting research on the deployment of UAV-based fog computing nodes for critical emergency response.
- Developed and simulated UAV mobility models to optimize node placement and connectivity under dynamic rescue conditions.
- Analyzed UAV-to-user and UAV-to-UAV communication graphs to evaluate network coverage, robustness, and resource trade-offs.
- Aimed at enhancing the efficiency of disaster response by ensuring low-latency, high-availability data exchange between aerial nodes and rescue teams.
- **Technical implementation completed; currently evaluating and benchmarking algorithms for optimal deployment efficiency.**

SKILLS

Languages : Python, C, Bash
Web Technologies : HTML, CSS
Operating Systems : Windows, MacOS
Data Analysis and Visualization : Power BI, Excel
Data Base Management Systems : MySQL, MongoDB
AI & Machine Learning: OpenAI API, LangChain, LLMs, Prompt Engineering, Gen AI, Agentic AI
Tools & Frameworks : VSCode, Jupyter Notebook, Gradio, Streamlit, Figma, GitHub,Web Scraping, n8n

CERTIFICATIONS

- Endpoint Security Cisco
- Introduction to Python Coursera

EXTRACURRICULAR ACTIVITIES

- Member, Organizing Committee – College Cultural Fest 2024: Managed logistics, coordinated student participation, and oversaw event scheduling.
- Participated in MCJ Club Badminton Tournament