KARAN M.L

Erode, Tamil Nadu | mlkaran2004@gmail.com | +91 7448907020 | linkedin.com/karan45 | github.com/karan4533

OBJECTIVES

Enthusiastic and adaptable Computer Science student with strong technical and analytical skills, eager to solve real-world problems through innovative tech solutions. Passionate about AI, continuous learning, and collaborative development.

EDUCATION

Vellore Institute of Technology - Andhra Pradesh M.Tech Integrated Computer Science   Sep 2021 - Present
- CGPA: 8.26/10

Navarasam Matriculation Higher Secondary School - Erode Higher Secondary Education,   2020 - 2021
Computer Science
- Percentage: 82.3%

Navarasam Matriculation Higher Secondary School - Erode Secondary School Education, (SSLC)   2018 - 2019
- Percentage: 73%

EXPERIENCE

Automating Logical Volume Management Across Distributed Servers in Data Centers - *Summer*   May 2024 – July 2024
Internship Project / DIGITAL FORTRESS by *Sibi Chakkaravarthy*
- Developed a web-based tool for managing logical volumes in distributed data centers.
- Automated storage management, optimizing resource utilization and system efficiency.
- Integrated real-time dashboards, storage alerts, and performance monitoring features.
- **GitHub:** Project Link

Universal PDF Extractor Development - *Python Developer* / PERSONAL PROJECT   Aug 2025 – Oct 2025
- Developed a robust PDF extraction tool using Python 3.13 and Streamlit, capable of processing large files while extracting text, images, and tables into unified XML output
- Implemented multi-engine table extraction using Camelot and Tabula with configurable processing order, integrated OCR capabilities via pytesseract for image-based text recognition
- Built scalable backend architecture with modular design supporting both server file paths and uploads, featuring progress tracking, session management, and automated cleanup functionality
- **GitHub:** Universal PDF Extractor Repository

PROJECTS

Hackathon Registration & Management System - *Team Project*   June 2021 – July 2022
- Built a hackathon team registration system using Hono.js and hosted it on Cloudflare.
- Implemented automated email confirmations for successful registrations.
- Organizers can export registered teams to Excel for efficient management.
- **GitHub:** Project Link

PrivateGPT – Private AI Document Query System   Feb 2025 – Mar 2025
- Built a secure, offline-ready system to query documents using Large Language Models (LLMs).
- Implemented document ingestion, chunking, embeddings, and context-aware retrieval using FastAPI and LlamaIndex.
- Ensured full data privacy by running all components locally without internet dependency.
- **GitHub:** Project Link

SKILLS SUMMARY

Programming Languages: Python, Java, JavaScript, TypeScript, HTML, CSS.
Frontend Development: React js, Svelte, Next js.
Backend & Frameworks: Hono js, Node js, RESTful APIs.
Databases: MySQL, MongoDB, Firebase Realtime DB, Redis, Neo4j.
Tools & Platform: Git & GitHub, Docker, Cloudflare, Supabase, Netlify, n8n, Draw.io, Figma, Canva, PowerPoint, MS Word, Excel, Tableau, Power BI, Amazon QuickSight.

INTERESTS

Technical: Full Stack Development, Backend Architecture, API Integration, Database Design, Responsive Web Design.
Non-Technical: Team Collaboration, Communication, Time Management, Problem Solving, Adaptability.

CERTIFICATIONS

- National Hackathon 2022 – IIEC, VIT-AP
- Full Stack Web Development Bootcamp - AI Integrated (March 18, 2025)
- Bootcamp on LLM Security (2025–2026) – Null Vijayawada
- Cybersecurity: Vulnerability Assessment and Patch Management – Syxsense
- Letter of Recommendation – Web Development for Suwate24 Conference, VIT-AP (May 2025) – Dr. Subbaiah Muthu Prabhu