DHEEKSHA V

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Professional Summary

B.Tech Information Technology student with strong expertise in Java-based Full Stack Development, OOPs, and AI-driven automation. Led and contributed AI and automation projects, **improving operational efficiency by over 30%**, including **CopBot**, a cybersecurity-focused legal chatbot, and **AlzCare**, an assistive AI app for Alzheimer's patients. Experienced in secure backend integration, RESTful APIs, and scalable deployment.

Projects

MDONER DPR - DPR assistant for North Eastern Government
July 2025 - August 2025
Pollachi, India

- Optimized DPR evaluation with **automated workflow**, cutting **batch time by 75%** and **boosting overall efficiency by 4x**.
- Engineered data preprocessing and feature scaling, reducing input noise and **increasing model performance by 45%.**
- **Tech Stack :** LightGBM, CatBoost, NumPy, Pandas, Scikit-Learn, Flask
  Role : Frontend Developer

MetisAI - Automated Life Cycle Assessment to aid Metallurgists
August 2025 - September 2025
Tamil Nadu, India

- **AI-Driven LCA tool** enabling Industries to assess ecological impact, **reducing manual assessment time by 70%**.
- Implemented **predictive AI** and **RPA workflows**, Automating data collection to **cut manual efforts by 85%**.
- **Tech Stack :** RPA, Pandas, Gradient Boosting, NumPy, Flask
  Role : Frontend Developer

EcoGridX - Intelligent Energy Distribution in Smart Grids
July 2025 - September 2025
Thoothukudi, India

- Engineered AI-Powered Smart Grid Optimization using Reinforcement Learning (PPO), Achieving **18% operational cost reduction**.
- Implemented real-time optimization and predictive analysis, **filling 30% unmet demand** and **14% higher renewable energy utilization**.
- Tech Stack : Reinforcement Learning (PPO), PyTorch, Flask, Pandas, NumPy
  Role : Frontend Developer

Vazhithunai - Police & Community Engagement AI Platform
April 2025 - May 2025
Thoothukudi, India

- Engineered **RAG-Powered chatbot**, providing instant access to legal information and improving **citizen query response time by 60%**.
- Integrated Geo-Tagged complaint filing, enabling **500+ citizens to report and track cases** in real time.
- **Tech Stack :** LangChain, Llama, Unsloth, Flask, MongoDB, JavaScript, HTML/CSS
  Role : Frontend Developer

Education

Bannari Amman Institute Of Technology
September 2023 - March 2027
Tamil Nadu, India
B.Tech. Information Technology **(CGPA: 8.63)**

Core Coursework : Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Networking, Database Management.

Skills

Programming Languages: Java, C/C++, Python
Frameworks and Tools: Flask, React.js, Next.js, Canva , Figma
Development & DevOps: Git, Docker, Linux, Postman
Cloud & Data Storage: AWS, Firebase, MongoDB, FAISS, VectorDB
System Architecture: REST APIs, Distributed Systems, Scalable Design, Agile, Model Fine-tuning.
Specialisations: Frontend development, Backend Development.

Achievements

Kriya - Runner up: Created an AI-Automation assistant for ERP applications **reducing manual** work by **78%**
SuperHack - Finalist: **AI-Assistant** that delivers clear MSPs increasing revenue and client retention.
Best Student Award: CFelicitated with the **Best Student Award** for the year **2022 and 2023** in HSC.

Leadership & Extracurricular

CDW STEP Workshop : Created real world projects with Docker and NodeJS.
Known Languages : English(R,W,S), Tamil(R,W,S), Hindi(R), Badaga(S)

Speaking: Proficient public speaker with experience in cold-approach sales across Coimbatore.