

H C PRAJWAL

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PROFILE SUMMARY

AI, ML, and DevOps Engineer with hands-on experience in building machine learning and deep learning models, fine-tuning LLMs, and deploying AI systems. Skilled in Hugging Face, Transformers, Ollama, Docker, Kubernetes, CI/CD automation, and FastAPI/Flask-based ML services. Strong background in data preprocessing, model evaluation, and scalable application development.

EDUCATION

B.E in Information Science and Engineering

MVJ college of Engineering, Bengaluru

Dec 2019-June 2024

CGPA: 7.69

COURSEWORK

Courses: Machine Learning, Deep Learning, Digital Logic Design, DataBase and Mangement System(DBMS), Probability & Statistics, Control Systems.

EXPERIENCE

AI Intern | *Networkers Home*

Dec 2025-Present

- Currently working on a time-based WireGuard access control platform, enabling automated, secure VPN access management with scheduling and policy enforcement.
- Designed and implemented multiple AI developer tools, including an AI tools marketplace web app and a FastAPI backend code generator specialized for LLM-related tasks, supporting rapid backend scaffolding and deployment.
- Contributed to an AI-based personalized tutoring web application, implementing Speech-to-Text (STT) and Text-to-Speech (TTS) pipelines to enable interactive, voice-driven learning.
- Using Supabase for data storage, metadata management, and scalable backend integration.

DevOps Intern | *Elevate Labs*

Sep 2025 - Nov 2025

- Designed and implemented CI/CD pipelines using GitHub Actions, Docker, and Jenkins, automating builds and deployments.
- Managed containerized applications using Docker, Docker Hub, and Kubernetes (Minikube) for local orchestration, increasing deployment efficiency.
- Built and deployed a personal portfolio website using React and Vite, automating deployment with a GitHub Pages CI/CD pipeline. Improved pipeline efficiency by optimizing workflow caching and reducing build time.
- Monitored system performance using Netdata in a Dockerized environment, visualizing resource metrics to optimize application efficiency.

TECHNICAL SKILLS

Languages: Python, SQL

Frameworks: LangChain, PyTorch, TensorFlow, Scikit-learn, Flask

Backend Frameworks: Node.js, Flask, FastAPI

Developer Tools: Git, VS Code, Google Colab, MySQL Workbench

Analytical Tools: NumPy, Pandas, Matplotlib, Seaborn, Plotly

Core Concepts: Generative AI, Machine Learning, Deep Learning, Object-Oriented Programming (OOPs), Database Management Systems (DBMS), Natural Language Processing (NLP), RAG.

PROJECTS

AI-powered FastAPI backend code generator | *Python, OpenAI*

Link

- Built an **AI-powered FastAPI backend code generator** that creates complete, production-ready APIs from high-level project ideas, optimized for LLM-based workflows.
- Implemented advanced features including **OpenAPI** spec generation, JSON schema preview, cost estimation, pre-flight validation, and diff-based regeneration for iterative development.
- Designed a scalable and modular architecture with exportable ZIP outputs and live code preview, enabling rapid backend bootstrapping and deployment.

Virtual Mechanic - AI-based Vehicle Assistance | *NLP,RAG, Gemini, Quadrnt*

Link

- Developed an AI assistant for vehicle issue diagnosis using text, image, audio, and video inputs.
- Integrated NLP models and built a responsive UI.
- Optimized vector search for low-latency

CERTIFICATIONS

- The Complete 2023 Web Development Bootcamp — *Udemy*

- Specialized Program in AI & ML in Drone Technology — *IIT Hyderabad (TIHAN)*