Bhavya Jethi

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Education

Dronacharya College of Engineering   *Expected Jun 2026*
Bachelor of Computer Science Engineering(AIML)
- CGPA: 7.70/10.0

Experience

Tech Intern   *Remote, Bangalore*
Yahweh Software Solutions   *June 2025 – Sep 2025*
- Developed backend features for an **AI career-counsellor chatbot** using **FastAPI and PostgreSQL**, including schemas for user and user profiles,**researching model parameters and basic optimization**.
- Collaborated with **React,Node.js developers** and **UI/UX designers** to integrate backend services, **maintained version control using Git/GitHub**, for easy collaborative development.

Software Developer Intern   *Noida, IN*
Agratas Infotech   *June 2024 – Oct 2024*
- Spearheaded a team of 4 interns to design and develop the**ERP platform** using **basic Django, HTML, CSS, and JavaScript** translating complex business requirements into **intuitive, user-focused features**.
- **Established standardized Git workflows** and **processes on GitHub**, and to ensure maintainable, high-quality, and collaborative development.

Projects

SnapCook: Optimized AI Recipe Microservice   *Live Link* ↗
- Designed an **event-driven AI microservice** using **FastAPI and Server-Sent Events (SSE)**, reducing time from **8s to approximately 400ms** by streaming **Gemini 2.5 Flash** tokens in real-time.
- Engineered a **Caching Layer** with **Redis and Perceptual Hashing**, achieving an approximate **80-90% latency reduction** for redundant requests and **cutting API calling costs by 40%** via duplicate detection.

Secure Webhook Processing Engine   *Github Link* ↗
- Engineered a **production-ready microservice** using **FastAPI** for real-time webhook ingestion, featuring a **security layer with HMAC-SHA256 signature verification** and custom **idempotency logic** to ensure data integrity and prevent unauthorized or duplicate requests.
- Architected a **containerized persistent storage system** using **SQLite and Docker** for zero-configuration evaluation, integrating **structured JSON logging and Prometheus metrics** to enable full system observability and real-time monitoring of API performance.

Technical Skills

Languages: Python, C++, R, HTML5, CSS

Libraries/Frameworks: Flask, Scikit-Learn, Numpy, Pandas, Matplotlib, FastApi, Langchain, RAG

Tools: HuggingFace, Git, GitHub, VSCode, Miro, Canva

Cloud,Databases:AWS EBS, AWS EC2 , SQL,

Certifications

NPTEL - Introduction to Machine Learning - Top 5%
Oracle - OCI Foundations Associate
Oracle - OCI AI Foundations Associate
IR4.0 Technologies - Programme of Microsoft, SAP, and Edunet Foundation