

BHARADWAJ VARADARAJAN

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ABOUT ME

Student and Full Stack Developer specializing in Python, FastAPI, and Flask backend architectures. Experienced in designing scalable database schemas, managing production migrations, and building high concurrency production applications with React, PostgreSQL, and RAG pipelines. Passionate about clean code, robust REST APIs, and efficient system design.

EDUCATION

Bachelor of Science in Data Science and Applications Indian Institute of Technology, Madras	2023 – Present <i>Foundational Level and Diploma Completed</i>
Bachelor of Engineering in Computer Science and Engineering Jerusalem College of Engineering, Affiliated to Anna University	2023 – Present <i>Completed Sixth Semester</i>

WORK EXPERIENCE

IITM Paradox <i>Super Co-ordinator</i>	Oct 2024 – June 2026
Built web and cross platform mobile applications for large scale student events supporting over 1,000 users, engineering cross device state synchronization to handle high concurrency traffic surges.	
Jaunt Data <i>Remote Software Engineering Intern</i>	April 2025 – August 2025
Developed the primary landing page using a component based UI architecture and conducted market research to inform feature deployment, translating business requirements into scalable, production ready code.	

PROJECTS

CoE & Administrative Platform
- Built backend and frontend modules for a live, college wide platform handling exam applications, results, and administrative workflows for 2,500+ students using React, FastAPI, and PostgreSQL. - Designed relational database schemas, optimized query indexes, and managed production migrations as part of a team while actively resolving live deployment issues.
ClassOps & TransitOps
- Engineered ClassOps, a full stack institutional workflow platform built with React and Flask featuring role based access portals and Google Classroom integrations, actively piloted across the CSE department. - Developed analytics layers for TransitOps to compute real time fleet utilization and efficiency metrics, implementing server side validation to prevent scheduling conflicts, overloading, and fraud.
AI Nivid Analysis Tool
- Built an ethical AI governance platform auditing bias, fairness, robustness, and privacy in AI models, computing 8+ fairness and compliance metrics per run. - Reduced manual audit time by over 95% while establishing a repeatable framework for compliance evaluation and risk mitigation in production ready AI workflows.
AI Prajna RAG Platform
Developed a compliance focused multi document RAG platform using hybrid BM25 and dense retrieval, cross encoder re-ranking, and local retrieval pipelines with HuggingFace API based LLM generation.

CERTIFICATIONS & ACCOMPLISHMENTS

Competitions and Hackathons
Active participant in Odoo Hackathon, AMD Slingshot, FOSS Hackathon, Smart India Hackathon, IIT PALS Innova Challenge, Tamil Nadu Hackathon, and SSN Cube Challenge.
Skills Training
Certified in automated regression testing using Selenium with Java and developed 3D game physics systems utilizing Unity and C#.

LANGUAGES

English: Full Professional Proficiency	Tamil: Native Proficiency	Hindi: Elementary Proficiency
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