

SHASHANK SEKHAR VS



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SUMMARY

Computer Science graduate with experience in building full-stack applications, backend services, and AI-powered systems using Python, JavaScript, Next.js, FastAPI, SQL, and modern AI frameworks. Experienced in developing production deployed applications, REST APIs, database-backed systems, and multi-agent AI workflows.

EXPERIENCE

Technical Lead | College Department Club

Jan 2025 - Dec 2025

- Led a cross-functional team of 8 students to deliver technical projects.
- Conducted code reviews and mentored junior developers on programming, system design, Git workflows, and development best practices.
- Conducted 4 technical workshops for 100+ students covering programming, Git, deployment, and software development practices.

PROJECTS

FlowForge - Autonomous Task Decomposition & Execution Engine

2026

- Built a multi-agent system that autonomously decomposes project briefs into planning, research, drafting, and review tasks using specialized agents.
- Implemented inter-agent feedback loops and quality-threshold exit conditions using Anthropic API.
- Designed structured output generation to produce reviewed deliverables from an initial project brief.

SupplySense - Hybrid Framework for Predictive Supply Chain Management

2025

- Built a hybrid AI system combining CatBoost regression and PPO-based reinforcement learning for supply-chain prediction and optimization.
- Developed prediction models for demand, profit, delivery time, and late-delivery risk using the DataCo Smart Supply Chain dataset (~180K records).
- Achieved a mean reward of +222.24 compared with -120.5 for the baseline through adaptive inventory, order-prioritization, and delivery-scheduling optimization.

Cycle World - Headless web storefront

2026

- Built a headless e-commerce storefront using Next.js with server side rendering and dynamic product routing for SEO optimized catalogue pages.
- Designed a normalized PostgreSQL schema with Supabase and implemented Row-Level Security (RLS) and real-time inventory synchronization.
- Deployed the application through Vercel with edge caching, achieving sub-second Time to First Byte.

EDUCATION

Sri Manakula Vinayagar Engineering College, Puducherry

Bachelor of Technology in Computer Science and Engineering | 2022-2026

Petit Seminaire Higher Secondary School, Puducherry

Class XII | 2021-2022

Class X | 2019-2020

TECHNICAL SKILLS

- Languages:** Java, Python, JavaScript, SQL
- Frontend:** Next.js, HTML, Tailwind CSS
- Backend:** FastAPI, REST APIs
- Database:** MySQL, Supabase
- AI/ML:** TensorFlow, CatBoost, scikit-learn, LangChain, RAG
- APIs:** OpenAI API, Anthropic API
- Tools:** Git, Github, Docker, Vercel

ACHIEVEMENTS

- Top 10 Finalist** - Hack Summit, SRM Institute of Science and Technology
- Top 5 Finalist** - Hack Day, Sri Manakula Vinayagar Engineering College