

Akshat Agarwal

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Full-stack developer and pre-final year IT student at VIT Vellore with experience building scalable web applications, backend systems, and AI-powered workflows across startup environments.

Education

Vellore Institute of Technology, Vellore — B.Tech. in Information Technology July 2024 – 2028
CGPA: 9.32

Skills

Languages: JavaScript, TypeScript, Python, Java, SQL

Development: React.js, Next.js, Node.js, Express.js, API Design, PostgreSQL, MongoDB, Redis, Supabase

AI / Infrastructure: RAG Pipelines, Local LLM Deployment, Docker, Kubernetes, AWS, Git, Postman

Experience

Sstudize Labs | Software Developer Intern Mar 2026 – Present | *Remote*

- Leading the software development team, overseeing technical execution and feature delivery.
- Built and shipped core full-stack features for an AI-enabled EdTech platform serving 500+ students.
- Led migration of the platform to a scalable full-stack architecture, reducing development overhead and improving maintainability.
- Optimized backend workflows and API response times by 35%, improving test creation and assessment delivery.

Samsung PRISM | R&D Intern May 2026 – Present | *Remote*

- Developing an LLM-driven autonomous interaction framework for handling dynamic web interfaces and workflows.
- Designed adaptive browser agents to improve interstitial detection and anti-bot handling across several dynamic site scenarios.
- Built modular automation pipelines improving execution reliability and reducing manual workflow dependency.

Metis Intellisystems Pvt. Ltd. | AI Developer Intern May 2026 – Jun 2026 | *Onsite*

- Architected an AI-assisted transaction intelligence pipeline processing financial transactions across BFSI workflows.
- Built a deterministic semantic categorization engine covering 40+ transaction classes across UPI, IMPS, NEFT, and RTGS.
- Improved classification consistency by 30% by combining rule-based signal extraction with fine-tuned transformer models for domain-specific transaction categorization.

Projects

Bank Statement RAG – Financial Document Intelligence System | GitHub

- Built a privacy-first RAG system for analyzing bank statement PDFs using local LLM inference.
- Developed custom chunking and retrieval pipelines optimized for transaction tables and exact-date lookups.
- Integrated locally hosted Qwen 2.5 7B via Ollama for financial querying over structured data.

QuizNova – Assessment & Class Management System | GitHub

- Built a full-stack assessment platform using Angular, Node.js, Express.js, and MongoDB.
- Developed teacher-student class workflows, quiz scheduling, and timed assessments.
- Built analytics dashboards for performance tracking and leaderboard insights.

ThinkBoard – Personal Productivity Platform | GitHub

- Engineered a full-stack productivity platform for note management with CRUD-based workflows.
- Built RESTful APIs and implemented Redis-based rate limiting for backend stability and traffic control.
- Designed persistent data storage with MongoDB and developed a responsive frontend using Next.js.