

# Akshat Agarwal

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Full-stack developer and pre-final year IT student at VIT Vellore with experience building and shipping scalable web applications in startup environments. Strong foundation in backend systems, APIs, and product-focused engineering with growing interest in AI systems, system design, and intelligent applications.

## Education

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**Vellore Institute of Technology, Vellore** — B.Tech. in Information Technology July 2024 – 2028

- CGPA: 9.31
- Relevant Coursework: Data Structures, DBMS, Operating Systems, Web Technologies

## Skills

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**Languages:** JavaScript, TypeScript, Python, Java, SQL

**Frameworks & Technologies:** React.js, Next.js, Node.js, Express.js, REST APIs, Streamlit

**Databases & Tools:** PostgreSQL, MongoDB, Redis, Supabase, Pandas, Git, GitHub, Postman

## Experience

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**Samsung PRISM** | R&D Intern May 2026 – Present  
*Bangalore, India [Remote]*

- Selected for the Samsung PRISM initiative under Samsung R&D Institute India - Bangalore (SRI-B).
- Developing a GenAI/LLM-based worklet focused on autonomous interaction management and dynamic site handling workflows.
- Contributing to AI system design, intelligent automation workflows, and research-driven problem solving alongside Samsung R&D mentors.

**Metis Intellisystems Pvt. Ltd.** | Junior Data Analyst May 2026 – Jun 2026  
*Ahmedabad, India [Onsite]*

- Engineered an AI-assisted transaction intelligence pipeline for BFSI workflows using modular data-processing architectures.
- Improved transaction categorization accuracy across UPI, IMPS, NEFT, and RTGS using semantic parsing and metadata enrichment.
- Built explainable workflows for transaction normalization, entity extraction, rule evaluation, and category resolution.

**Sstudize Labs** | Software Developer Intern Mar 2026 – Present  
*Pune, India [Remote]*

- Built and shipped full-stack features for an AI-enabled EdTech platform serving 500+ students.
- Contributed to re-engineering and migrating the platform to a modern, efficient, and scalable full-stack framework.
- Improved application performance, backend architecture, and overall product experience within a fast-paced startup environment.

## Projects

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**Bank Statement RAG – Local Financial Document Analysis System** | GitHub

- Built a Streamlit-based RAG application for analyzing bank statement PDFs using local LLM inference for privacy-focused financial querying.
- Developed custom chunking and retrieval workflows optimized for transaction tables, keyword matching, and exact date-based retrieval.
- Integrated a locally hosted Qwen 2.5 7B model via Ollama to enable natural language querying over structured financial data.

## **QuizNova – Full-Stack Quiz and Class Management System | GitHub**

- Built a full-stack quiz and assessment platform using AngularJS, Node.js, Express.js, and MongoDB.
- Implemented role-based authentication, quiz scheduling, leaderboards, and timed assessments for teachers and students.
- Developed REST APIs, session-based authentication, and class management workflows with secure password hashing.
- Designed a responsive Bootstrap-based UI with real-time quiz access using unique quiz codes.

## **ThinkBoard – Full-Stack Note Taking Application | GitHub**

- Designed and implemented RESTful APIs using Node.js and Express.js with authentication and session management.
- Integrated MongoDB for persistent storage and implemented Redis-based rate limiting for backend stability.
- Built and deployed a responsive frontend using Next.js and React.

## **Interests**

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Backend architecture, System design, AI systems, Building scalable products, Startup ecosystems