

# ABHIJAY KUMAR SHAH

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## Education

<b>Vellore Institute of Technology</b>	<b>Jul 2026 (Expected)</b>
B.Tech in Computer Science & Engineering	CGPA: 8.44 / 10.0
<b>DAV Public School, DUDHICHUA</b>	<b>2019–2021</b>
Senior Secondary (Class XII)	CGPA: 9.20 / 10.0
<b>DAV Public School, Surya Vihar</b>	<b>2018–2019</b>
Secondary (Class X)	CGPA: 9.85 / 10.0

## Technical Skills

**Languages & Core:** Python (Strong), SQL, JavaScript, C++ (Data Structures & Algorithms)  
**Data & AI:** Pandas, NumPy, ETL Data Pipelines, GenAI & LLM Integration, Machine Learning (Concepts)  
**Databases & Cloud:** Relational DBs (PostgreSQL), NoSQL (MongoDB), AWS (Basic), Data Modeling  
**Tools & Fundamentals:** Git, Docker, BI Dashboards, REST APIs, Statistics & Probability, OS Concepts

## Projects

<b>Scholara — AI-Enabled Workflow &amp; Data Processing System</b> — <i>Python/JS, APIs, Document Analysis</i>	<a href="#">[Link]</a>
– <b>Data Pipeline Engineering:</b> Engineered a state-driven data pipeline (Proposal → Approval → Final Upload), utilizing RESTful APIs to validate and transform data at each stage.	
– <b>AI Document Parsing:</b> Integrated an Automated AI Analysis Engine to parse unstructured PDF uploads, extracting critical information and generating instant data compliance feedback.	
– <b>Analytical Dashboards:</b> Developed a real-time visualization dashboard to track submission metrics and workflow bottlenecks, enabling data-driven monitoring.	

<b>Rately — Scalable Platform &amp; GenAI Integration</b> — <i>REST APIs, OpenRouter/Gemini LLM, Databases</i>	<a href="#">[Link]</a>
– <b>LLM Integration:</b> Integrated context-aware GenAI models (Gemini via OpenRouter API) into the application to process user inputs and generate intelligent responses.	
– <b>Database Architecture:</b> Architected a scalable database schema featuring Role-Based Access Control (RBAC) to manage data isolation securely across Admins, Owners, and Users.	

<b>High-Throughput Media Processing Engine</b> — <i>JavaScript, Performance Optimization, Data Streams</i>	<a href="#">[Link]</a>
– <b>Stream Processing:</b> Engineered a multi-instance system capable of concurrently processing and synchronizing 9 heavy data streams without blocking the main execution thread.	
– <b>Data Validation:</b> Implemented intelligent file validation algorithms to detect corruption in data buffers, ensuring safe memory loading and real-time error reporting.	

## Experience / Leadership – Achievements

<b>CatCatchCode</b>	<b>catcatchcode.online – Jul 2025 – Present</b>
Founder & Technical Lead — VIT	<a href="#">[Link]</a>
– Founded an ed-tech initiative providing placement guidance, curated study material, and senior mentorship for students.	
– Led a 5-member team to produce 100+ technical learning videos, impacting 100+ students.	
– Designed beginner-to-intermediate learning roadmaps for DSA, Full-Stack development, and AI automation.	
– Expanded content across LinkedIn, YouTube, Instagram, and GitHub, building an early-stage learning community.	

<b>Satsang Vachan Satsang Seva</b>	<b>satsangvachansatsangseva.online – Sept 2025 – Present</b>
Co-Founder & Project Lead – Digital Preservation & Social Impact Initiative	<a href="#">[Link]</a>
– Leading a digital preservation initiative to convert decades of archival literature into modern visual and multimedia formats.	
– Spearheading a digitization initiative to preserve 50+ years of archival literature for a global community of 200 Million+ followers.	
– Collaborating with contributors to produce posters, magazines, podcasts, and animated content for large-scale audiences.	
– Applying AI-assisted summarization to transform long-form textual material into concise, accessible visuals.	
– Designing a scalable content platform focused on accessibility, maintainability, and positive social impact.	

## Certifications

<b>Python Essentials (VIT)</b> — May 2024 <a href="#">[Link]</a>
<b>Python Quick Start (LinkedIn Learning)</b> — Jan 2023 <a href="#">[Link]</a>
<b>Excel Essential Training (LinkedIn Learning)</b> — Feb 2023 <a href="#">[Link]</a>
<b>MERN Full Stack Certificate</b> — Apr 2025 <a href="#">[Link]</a>