

# Aman Verma

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## EDUCATION

<b>Dr. A.P.J. Abdul Kalam Technical University</b> <i>Bachelor of Technology, CSE (Artificial Intelligence &amp; Machine Learning)</i>	Kanpur, UP 2023 - 2027
<b>St. Aloysius High School (ISC)</b> <i>Senior Secondary (Science) - 94%</i>	Kanpur, UP 2020 - 2022
<b>St. Aloysius High School (ICSE)</b> <i>Secondary Education (Science) - 88%</i>	Kanpur, UP 2018 - 2020

## ACHIEVEMENTS

<b>Hackblitz 2025 – Winner</b> <i>Built <b>SpeakSmart</b>, a multilingual communication improvement platform</i> <ul style="list-style-type: none"><li>Led a team of seniors to build a speech training system that analyzes voice using Librosa and vocabulary using LLaMA 3.</li><li>Integrated Murph AI for realistic voice synthesis and used FastAPI for backend services with authentication, MongoDB, and Google Cloud Storage.</li><li>Developed a React.js frontend with WebSocket support for live feedback, gamified practice sessions, and speech refinement tools.</li><li>Won 1st place out of 200+ teams in a 12-hour hackathon organized by Google Developer Groups (GDG).</li></ul>	<a href="#">MMMUT, Gorakhpur</a>
<b>GIH 2.0 – Best Innovative Team Award</b> <i>Built <b>Aushadhi AI</b>, an AI-driven drug discovery toolkit</i> <ul style="list-style-type: none"><li>Created a pipeline to identify target proteins and predict IC50 values of alternative molecular structures using ML models.</li><li>Combined GenAI-powered summarization with biomedical knowledge graphs for medicine repurposing.</li><li>Won among 2000+ participants in a 36-hour national-level hackathon.</li></ul>	<a href="#">GCET, Noida</a>
<b>CodeClash 2025 – Top 5% Rank</b> <i>Competitive Programming Contest</i> <ul style="list-style-type: none"><li>Ranked among the top 5% out of 5500+ participants from IITs, NITs, and other top institutions.</li><li>Cleared two highly competitive online rounds involving DSA, algorithms, and problem solving.</li></ul>	<a href="#">Online</a>

## PROJECTS

<b>AI EBOOK READER</b>   <i>React, MongoDB, SpringBoot, FastAPI, Microservices, GenAI</i> <ul style="list-style-type: none"><li>Developed a platform that generates quizzes and summaries from uploaded eBooks.</li><li>It includes an inbuilt reader, quiz portal, and progress tracker, and supports .epub files exclusively.</li><li>Built the frontend using React.js and Tailwind CSS, and used MongoDB for data storage.</li><li>The backend comprises Spring Boot service for authentication, file uploads, quiz storage, and progress tracking, along with a FastAPI service powered by Llama3 for quiz and summary generation.</li><li>Designed the system using a REST-based microservices architecture</li></ul>	<a href="#">View Code</a>
<b>PG MANAGEMENT</b>   <i>React, MongoDB, SpringBoot, , Spring Security</i> <ul style="list-style-type: none"><li>The platform supports three roles: Admin, PG Owner, and User, each with a dedicated interface.</li><li>Users can search for, explore, and book PG accommodations.</li><li>The application is built using React.js and Tailwind CSS on the frontend, with Spring Boot and MongoDB on the backend.</li><li>It uses Spring Security for role-based access control and REST APIs for communication between components.</li></ul>	<a href="#">View Code</a>

## TECHNICAL SKILLS

**Languages:** Java, Python, TypeScript, HTML, CSS  
**Frontend:** React.js, Zustand, Tailwind CSS  
**Backend:** Spring Boot, Express.js, FastAPI, REST APIs, Spring Security, GenerativeAI  
**Database:** MongoDB  
**Concepts:** OOP, DSA, Microservices, Responsive Design