Aman Verma

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EDUCATION

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

ACHIEVEMENTS

Hackblitz 2025 – Winner — MMMUT, Gorakhpur

*Built **SpeakSmart**, a multilingual communication improvement platform*

- Led a team of seniors to build a speech training system that analyzes voice using Librosa and vocabulary using LLaMA 3.
- Integrated Murph AI for realistic voice synthesis and used FastAPI for backend services with authentication, MongoDB, and Google Cloud Storage.
- Developed a React.js frontend with WebSocket support for live feedback, gamified practice sessions, and speech refinement tools.
- Won 1st place out of 200+ teams in a 12-hour hackathon organized by Google Developer Groups (GDG).

GIH 2.0 – Best Innovative Team Award — GCET, Noida

*Built **Aushadhi AI**, an AI-driven drug discovery toolkit*

- Created a pipeline to identify target proteins and predict IC50 values of alternative molecular structures using ML models.
- Combined GenAI-powered summarization with biomedical knowledge graphs for medicine repurposing.
- Won among 2000+ participants in a 36-hour national-level hackathon.

CodeClash 2025 – Top 5% Rank — Online

Competitive Programming Contest

- Ranked among the top 5% out of 5500+ participants from IITs, NITs, and other top institutions.
- Cleared two highly competitive online rounds involving DSA, algorithms, and problem solving.

PROJECTS

AI EBOOK READER | *React, MongoDB, SpringBoot, FastAPI, Microservices, GenAI* — View Code

- Developed a platform that generates quizzes and summaries from uploaded eBooks.
- It includes an inbuilt reader, quiz portal, and progress tracker, and supports .epub files exclusively.
- Built the frontend using React.js and Tailwind CSS, and used MongoDB for data storage.
- 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.
- Designed the system using a REST-based microservices architecture

PG MANAGEMENT | *React, MongoDB, SpringBoot, , Spring Security* — View Code

- The platform supports three roles: Admin, PG Owner, and User, each with a dedicated interface.
- Users can search for, explore, and book PG accommodations.
- The application is built using React.js and Tailwind CSS on the frontend, with Spring Boot and MongoDB on the backend.
- It uses Spring Security for role-based access control and REST APIs for communication between components.

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