

ARPIT SINGH

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EDUCATION

Vellore Institute of Technology

B.Tech in Computer Science (Artificial Intelligence & Machine Learning); CGPA: 9.07

Sehore, MP

2023 – 2027

EXPERIENCE

DBS Bank | India

Remote / Hyderabad

Application Architect Apprentice

Jun 2026 – Present

- Worked on 5-agent AI pipeline (Intake, Classification, Assignment, Escalation, Response) to automate ticket handling, and connected it to a Java Spring Boot backend.
- Worked on a voice-controlled, multi-user collaborative canvas with a real-time AI agent, using a Spring Boot backend to handle the speech-to-text to text-to-speech pipeline.

Divam Technology

Remote

Full Stack Developer Intern

May 2026 – Jun 2026

- Shipped UI/UX, user management, and feedback features in Next.js, and boosted the Lighthouse SEO score from **63 to 89** through optimized development practices.
- Built authentication and integrated **17+ REST API endpoints** across notification, user, and workspace panels.
- Implemented a router search feature improving component redirection, and added ledger component sync with tabular formatting.
- Added a bank ledger component with API parsing for transaction data, improving data accuracy across the platform.

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL, HTML, CSS

Frameworks & Libraries: Spring Boot, Spring Data JPA, Hibernate, React.js, Tailwind CSS

Databases & Infrastructure: MySQL, MongoDB, Redis, REST APIs, AWS, Vercel, Render

Tools & Platforms: Maven, Git/GitHub, Postman, Docker, Google ADK (Agentic AI), Linux

PROJECTS

ChatterBoxAI | Java 17, Spring Boot, Spring Data JPA, PostgreSQL, LiveKit SDK, React

2026

- Architected a Spring Boot REST backend connected to a multi-agent system that works with the user on a collaborative canvas, adjusting API parameters with AI to automate the calling process.
- Integrated a 3-layer pipeline: speech-to-text, an LLM to handle element parameters and repositioning, and text-to-speech.

EasyFlow | Java, Spring Boot, PostgreSQL, Tesseract/Tess4J, REST APIs

2026

- Built a 5-agent AI pipeline to automate ticket generation and assignment, and connected it to a Java Spring Boot backend for orchestration.
- Added agents that evaluate issues from images and video using OpenCV.

LoraFrame | React, ComfyUI, Grok Vision API, Google Imagen API, Redis | HackCulture Grand Finalist

2026

- Selected as **Grand Finalist at HackCulture (T-Works, Hyderabad)** – built an end-to-end GenAI image pipeline under competitive constraints.
- Chained Grok Vision API → prompt builder → Google Imagen API with Redis caching, automating personalized image generation and cutting manual processing time by **~20%**.

RESEARCH & ACHIEVEMENTS

Scopus-Indexed Research Paper | Routledge / Scopus

March 2026

- Published *Hybrid Attention Network with TabNet Benchmarking for Breast Cancer and Heart Disease Classification* – Scopus-indexed, March 2026.

Research Paper: EchoVIT-Enhanced Platform | IJARESM Journal

Jan 2024

- Published research analyzing web platform performance optimizations using MongoDB database structures and backend routing configurations.

Competitive Programming & Problem Solving

- LeetCode:** Solved **495+** problems; earned the **365-Days consistency badge**.
- CodeChef:** **3-Star Rated Coder** – consistent performance across competitive programming contests.
- Finalist**, Cine AI Hackathon (T-Works, Hyderabad).

LEADERSHIP & CERTIFICATIONS

Leadership & Volunteering

- Tech Lead:** BIT & BIT Club (2023 – Present) | **Tech Core Member:** UX Club (2024 – 2025) | **Event Core Team:** IoT Club (2023 – 2025)

Certifications

- Applied Machine Learning** (Univ. of Michigan, Coursera) | **Web Development** (Microsoft, DevTown) | **DSA:** GFG 160 Days Challenge | **Google IT Support** (Google)