VARTIKA SHARMA

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TECHNICAL SKILLS

- **Languages:** Java, Python, C/C++, JavaScript, TypeScript, SQL
- **DSA:** Arrays, Trees, Graphs, DP, Greedy, Backtracking, Segment Trees, Union-Find
- **Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS
- **Backend:** Node.js, Express.js, FastAPI, REST APIs, WebSockets
- **AI / GenAI:** RAG, LLM Integration, Prompt Engineering, Gemini, Groq, Multi-Agent Systems, Vector Databases
- **Databases:** PostgreSQL, MongoDB, SQLite, ChromaDB, Prisma
- **Cloud & Tools:** AWS (Boto3), Vercel, Git, GitHub, Postman

PROJECTS

SkillWise AI
GitHub | Demo

React · TypeScript · Express.js · PostgreSQL · Prisma · Gemini AI

- Architected an AI-driven technical interviewer that parses a candidate's GitHub profile, repository metadata, and tech-stack history via Gemini AI to auto-generate personalized coding interview sessions, cutting manual interview-prep setup time by 80%.
- Designed the backend session architecture (Express.js + PostgreSQL + Prisma) to persist multi-stage interview state, enabling adaptive question generation that adjusts difficulty in real time based on candidate responses.
- Built multimodal evaluation combining speech recognition with live scoring across technical and behavioral competency frameworks, giving candidates structured, criteria-based feedback instead of a single pass/fail result.

PulseTrack
GitHub | Demo

Next.js · TypeScript · PostgreSQL · NextAuth.js · Groq Cloud · Inngest

- Built a competitor-intelligence platform that autonomously monitors 50+ data sources through hybrid web scraping and automated change detection, removing the need for manual competitor tracking.
- Orchestrated a scheduled, zero-touch data pipeline with Inngest to run recurring scrape-and-analyze jobs, then integrated Groq LLMs to auto-generate SWOT-based competitive analysis reports from the collected data.

CloudWise AI
GitHub | Demo

React · FastAPI · PostgreSQL · ChromaDB · Groq (Llama-3.3) · Boto3

- Engineered a multi-agent cloud cost optimization platform with four specialized agents — Cost Analyzer, Anomaly Detection, Optimization, and Multi-Cloud — that collaboratively audit AWS infrastructure via Boto3 and surface actionable savings recommendations.
- Implemented RAG-powered natural-language querying over infrastructure data using Groq LLM and ChromaDB vector search, plus a self-contained demo mode for evaluating the system without live AWS credentials.

EXPERIENCE

Backend Engineer Intern — klstr.ai
Summer 2026

Node.js · TypeScript · Express.js · PostgreSQL · Next.js · Docker

- Built listings and search-and-discovery REST APIs (Express.js + PostgreSQL) for DataHub, klstr.ai's data marketplace, with industry, data-type, and frequency filters, and integrated them into the Next.js marketplace UI.
- Implemented a queue-backed scheduled-delivery system mapping Daily to Annually (and On-Demand) frequencies to cron jobs, with idempotent runs keyed by subscription and period so worker restarts never cause duplicate deliveries.
- Developed an automated dataset quality-validation pipeline (schema, null/duplicate rates, size bounds, freshness) that gates publishing, plus immutable dataset versioning so buyers on older integrations stay unbroken.

ACHIEVEMENTS & COMPETITIVE PROGRAMMING

- **Contest Ratings:** LeetCode 1520 | Codeforces 1000, with consistent participation in weekly/biweekly contests.
- Ranked Top 5 out of 400+ teams at Brewing Codes 4.0 — designed and deployed a full-stack solution within a 24-hour competitive window.
- Cleared the Smart India Hackathon (SIH) internal round, advancing past 170+ competing teams with a panel-approved solution.

EDUCATION

Bhagwan Parshuram Institute of Technology (GGSIPU)
Aug 2024 – Present

B.Tech in Computer Science Engineering — CGPA: 8.6 / 10.0