

# JALAJ SHARMA

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## WORK EXPERIENCE

### Associate-Developer, Tech Mahindra

Feb 2024 - Dec 2025

- Architected a low-latency FastAPI microservice integrating **STT, TTS, and LLM** for real-time AI interviews.
- Enabled **multilingual interviews in 10+ languages** using context-based model routing.
- Achieved a **98% reduction** in hiring process **costs** by automating end-to-end recruitment workflows.
- Enabled **client-side and server-side recording** for interviews, supporting **50+ concurrent sessions**.
- Engineered scalable video processing pipelines handling 100GB+ video per month via **Azure Blob Storage**.
- Designed and implemented an end-to-end hiring platform using **.NET Core MVC 8.0 with MSSQL**, automating JD generation, test creation & feedback summaries via **OpenAI APIs**.
- Led a cross-functional team of 4** through full SDLC—planning to deployment.
- Built **3 cost dashboards** and added **API-key testing** to the admin panel, reducing configuration errors.
- Built and integrated **2 Flask WhatsApp chatbots** with an ASP.NET + MSSQL backend, cutting workflow steps 75% and boosting engagement 50%.
- Delivered 2 client POCs (Healthcare & Finance)—**1 in Next.js and 1 via ASP.NET Razor Pages**.
- Managed **deployment** of 2+ web apps & microservices across **Azure and VPS cloud environments**.
- Trained in data science also through 6+ projects performing **EDA, data cleaning, and feature engineering** using Pandas, NumPy, and Seaborn, and developed ML models with Scikit-learn.

## PROJECTS

### Sudoku | Next.js, TypeScript, Node.js, Socket.IO, MongoDB, Redis.

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- Orchestrated multiplayer Sudoku, enabling **2-player competitive** play per room with a responsive interface.
- Optimized data persistence with a **dual-model strategy and caching**, yielding over 80% faster delivery.
- Implemented 3 core gameplay algorithms (generator, solver, and validator), generating unique puzzles.

### CoverGenie | Next.js, FastAPI, LangChain, LangGraph, LangSmith, MCP, JWT, PostgreSQL.

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- Engineered an **AI pipeline to generate job application documents**, saving users over 95% of their time.
- Crafted a **5-agent AI system** to automate job description analysis, company research, etc.
- Created a secure user management system supporting 5+ core features like **authentication** and **file uploads**.

### Movie RAG | LangChain, LangGraph, FastAPI, LangSmith, RAG, Pinecone.

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- Designed a **movie recommendation system** using 5 agents for personalized suggestions with **monitoring**.
- Implemented **multi-query generation, corrective RAG, and parallel web search** for faster, accurate results.

### Test Your Self | Next.js, JavaScript, Supabase (PostgreSQL), VAPI, Anthropic, and OpenAI .

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- Constructed an AI-driven assessment app generating **practice interviews** with real-time evaluations.
- Generated actionable insights that improved user performance by 25%, enhancing learning efficiency.

## EDUCATION

### Bachelor of Technology - Computer Science and Engineering

Oct 2020 - Jul 2024

Krishna Institute of Engineering and Technology(KIET) , AKTU, CGPA-8.02

## ACHIEVEMENTS.

- Published machine learning stress detection research in prestigious IEEE journal - [Link](#).
- Received 3 consecutive quarterly "**Pat on the Back**" awards, recognizing exceptional performance.

## SKILLS

- Programming Languages & System Design:** Java, C#, Python, HLD, LLD.
- Backend Frameworks:** ASP.NET, Flask, FastAPI, and RESTful API Development.
- Frontend Technologies:** HTML, CSS, JavaScript, React.js, Next.js, Razor Pages.
- Database & Cloud:** Microsoft SQL Server, MongoDB, PostgreSQL, Docker, GitHub, Microsoft Azure, VPS Hosting.
- AI & ML:** LangChain, LangGraph, LangSmith, RAG, Generative AI, Agentic AI, Machine Learning, MCP.