

# DARSH PATIL

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## OBJECTIVE

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AI Engineer with hands-on experience building production-grade agentic systems, voice AI pipelines, and LLM-powered applications. Skilled in end-to-end development from model integration and prompt engineering to scalable deployment. Seeking a role where I can drive real-world AI product development at scale.

## SKILLS

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<b>AI &amp; LLM</b>	LangChain, LangGraph, Agentic AI, Prompt Engineering, RAG, LLM Orchestration, Voice AI (ASR/TTS), Sarvam AI APIs, MCP's
<b>Backend &amp; APIs</b>	Python, FastAPI, Node.js, Express.js, REST APIs, WebSockets
<b>Frontend</b>	React.js, Next.js, Three.js, TypeScript, Tailwind CSS, HTML, CSS
<b>Databases</b>	MongoDB, PostgreSQL, Firebase, DynamoDB
<b>DevOps &amp; Cloud</b>	Docker, AWS (Cognito), Google Cloud, Git
<b>Embedded &amp; IoT</b>	Arduino, Raspberry Pi, Microcontrollers, FPGA

## WORK EXPERIENCE

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### Full Stack AI Engineer

Groove Innovations

Nov 2025 – Present  
*Bengaluru, Karnataka*

- Engineered and deployed an intelligent CRM system to streamline customer lifecycle management and internal operations.
- Developed an internal smart payment gateway enabling users to purchase platform plans and features, with seamless integration to HDFC Smart Gateway for secure transaction processing while maintaining full control over business logic and workflows.
- Implemented secure authentication and user management using AWS Cognito, along with efficient data handling via MongoDB.
- Designed and developed a calendar scheduling service supporting both authenticated users and public appointment booking via shareable links.
- Integrated third-party services including Google Calendar, Outlook, and Zoom using Nango, ensuring real-time synchronization and automated meeting scheduling.

### Full Stack Developer

Hubnex Labs

Dec 2024 – Jul 2025  
*Gurugram, Haryana*

- Contributed in development of CodeLabs, a real-time collaborative coding platform enabling multiple users to write and execute code simultaneously with live Tutorials on all the fundamentals.
- Led a team of interns, driving project planning, code quality standards, and timely delivery of features.
- Contributed to system design decisions, optimizing performance and maintainability across the application stack.

## PROJECTS

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- Voice AI Agent Pipeline using Sarvam APIs.** Built a production-ready voice AI agent using PipeKit as the orchestration framework, integrating Sarvam AI's **Saaras** (ASR/speech-to-text) and **Bulbul** (TTS/text-to-speech) APIs. Designed a low-latency agent pipeline with LangGraph-based conversation state management, enabling multi-turn dialogue over voice channels. Optimized for Indian language support and telephony-grade audio quality.

- **LawAI – Agentic Legal RAG Assistant.** Built an agentic RAG assistant for Indian legal documents using LangChain, Ollama (Llama 3), and Pinecone. Designed a 4-way hybrid retrieval system combining section-metadata lookup, exact phrase matching, BM25 lexical search, and semantic vector retrieval, fused via Reciprocal Rank Fusion (RRF) and custom legal re-ranking. Implemented section-aware document chunking, metadata-driven retrieval, and intelligent query routing that dynamically switches between direct LLM responses and retrieval-augmented reasoning. Integrated Pinecone-hosted embeddings, parallel retrieval execution, and a Streamlit interface with source citations and verification mode for accurate, evidence-backed legal assistance.
- **AI Interviewer – Adaptive Voice Interview Platform (In development).** Built a full-stack AI interviewing platform orchestrating adaptive Gemini-powered questioning via Google ADK, real-time voice sessions using Sarvam STT/TTS over WebSocket, sandboxed code execution, and multi-layer proctoring. Architected BYOK key encryption, claim-graph resume analysis, and a React micro-frontend with Vite Module Federation.
- **SafeSteps: AI-Powered Women’s Safety Platform.** Designed and developed a full-stack emergency response system featuring real-time SOS tracking, AI-driven threat assessment, multilingual speech analysis, emergency contact alerts, incident reporting, and live location monitoring. Built with FastAPI, MongoDB, Groq LLM, Sarvam AI, and WebSocket-based audio intelligence, with support for both online and offline emergency workflows.

## CERTIFICATIONS

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- Google Cybersecurity Certification – Google Skills Boost.
- Full Stack Development, Generative AI & [Python Programming](#) – Great Learning.
- IBM Frontend Developer Internship & Certification – AICET Edunet Foundations.
- [Legacy Frontend Developer Certification](#) – freeCodeCamp.

## EDUCATION

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**B.Tech, Electronics and Telecommunication Engineering, DBATU**

PCET’s Nutan College of Engineering And Research

2022 – 2026

## EXTRA-CURRICULAR ACTIVITIES

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- National and University-Level Basketball Player; represented state and university in major tournaments, demonstrating leadership, discipline, and high-performance teamwork.