ISHA UPADHYAY

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Technical Skills

- **Languages:** JavaScript (ES6+), TypeScript, Python, C++
- **AI/ML:** LangChain, LangGraph, Generative AI, LLMs, RAG
- **Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS, ShadCN UI, Zustand
- **Backend:** Node.js, Fastify, Express.js, FastAPI, REST APIs, WebSockets
- **Databases:** MySQL, MongoDB, Firebase
- **DevOps & Tools:** AWS S3, Docker, Git, GitHub, Postman
- **Core CS:** Data Structures & Algorithms, OOP, DBMS, Operating Systems

Work Experience

Dehix   Oct 2024 – Mar 2025
Software Engineer Intern   *Remote*

- Built **AI-powered community platform** with real-time group chat using WebSocket communication, React UI components, and Zustand state management for multi-user sessions.
- Engineered **AWS S3 file upload system** with compression and validation, integrated **Google Meet API** for in app video conferencing with automatic room creation.
- Designed and integrated **10+ RESTful APIs** using **Node.js and Fastify** with query optimization and Redis caching for improved performance.
- Developed **LangChain-powered ATS chatbot** for resume optimization with conversational AI and document parsing across **4+ screens** using React.js and TypeScript.

Open Source Contributor   Jan 2025 - Present

- Implemented **Project & Board Module** with **5 REST APIs** and normalized database schema using Node.js.
- Fixed critical **WebSocket stability issues** in Golang backend, implementing connection state tracking, auto-reconnection with retry limits.
- Designed **text-based image search** using YOLO tags and identified performance bottleneck in Settings page with detailed reproduction and solution proposal.

Projects

ChillDeck – AI Presentation Generator | Next.js, TypeScript, FastAPI, LangChain   2025

- Built **agentic AI system** using **LangChain and LangGraph** with 5 agent workflow (Planning, Research, Content Writing, Quality , Design) and Tavily for automated web research
- Engineered **document processing pipeline** with **5+ FastAPI endpoints**, handling PDF/DOCX parsing and implementing **RAG based content generation** with vector store and intelligent chunking.
- Developed responsive Next.js frontend with real-time preview, 5 theme templates, and multi format export (PPT, PDF) using PptxGenJS.

Coding Collab Platform | Next.js, Node.js, WebSockets   2024

- Built real-time collaborative code editor supporting up to **5 users per room** using **Socket.io** for synchronization, integrated multi-language compiler (Python, JS, C++, Java) with Judge0 API, and WebRTC for video/audio communication.
- Integrated **Gemini chatbot** for DSA debugging and created productivity suite with Study Streak (customizable backgrounds, music, todos), Social Feed , Note Management, and Profile Analytics with contribution graphs.

Education

ABES Institute of Technology   Nov 2022 – June 2026
B.Tech in Computer Science (AI Specialization) — CGPA: 7.4   *Ghaziabad, UP*

Achievements

- Solved **500+ DSA problems** across LeetCode, Codeforces, and GeeksforGeeks.
- Qualified **TCS CodeVita Season 13 – Round 1**, competing among 100,000+ participants nationwide.
- Contributed to **4+ production open-source organizations** with multiple merged PRs and feature proposals.