PRATHAM DWIVEDI

Gorakhpur, Uttar Pradesh

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Education

Indian Institute of Information Technology, Ranchi   **2022 − 2026**
Bachelor of Technology in Computer Science and Engineering (CGPA - 9.07)   *Ranchi, Jharkhand*

Technical Skills

Languages: C, C++, JavaScript, TypeScript, SQL, HTML

Technologies/Frameworks: Github, Node.js, Express.js, React, NextJS, MongoDB, MySQL, PostgreSQL, Prisma, Redis, Tailwind CSS, Kafka, RabbitMQ, Firebase, Sockets

Cloud & Devops: AWS (EC2, S3, Lambda, AmazonMQ, VPC, Cloudfront), Docker, CI/CD

Coursework: Data Structures & Algorithms, Operating System, Database Management System, Computer Networks

Experience

Smart Stream Technologies   **Mar 2025 − May 2025**
Full Stack Intern   *Remote*

- Built a scalable media pipeline using **NestJS, BullMQ, AWS S3, and FFmpeg** to compress .mp3 files, reducing file size by up to **75%** and significantly improving upload efficiency.
- Automated the media processing workflow with **AmazonMQ** and **AWS Lambda**, reducing manual workload by **90%** and enabling smooth asynchronous execution.
- Contributed to the development of a cross-platform **Electron.js** desktop application using **React** and **NestJS**, enabling the management and visualization of **1000+** processed audio files, with storage and analytics handled via MongoDB.
- Utilized **OpenAI API** to extract smart summaries and insights from audio files, increasing metadata richness by **3×** and enhancing search and categorization.

Fursat.AI   **Jan 2025 − Feb 2025**
Software Developer Intern   *Remote*

- Engineered a production-ready **WhatsApp chatbot** using the **WhatsApp Business API** to generate personalized tour packages in under **20 seconds**, drastically reducing human effort and response time.
- Embedded **OpenAI API** and progressively refined prompt logic to enhance customization and reduce manual effort by **80%.**

Projects

RepoAssist | *Next.js, TRPC, PostgreSQL, LangChain, AssemblyAI, Gemini-2.5 flash, Stripe, Cloudinary* | ▶ 🐙

- Developed an AI-powered codebase QA feature using **LangChain** and **RAG**, providing file-level answers and reducing manual repo exploration time by **60%.**
- Implemented a credit-based billing system with **Stripe** and secure auth via Clerk, and displayed AI-generated summaries for the **top 15** Git commits, improving repo insights and version clarity.
- Enabled real-time repo sharing and multi-user access, supporting **10+** concurrent users per repository, and used **Cloudinary** to store audio files for meeting transcriptions.
- Leveraged **AssemblyAI** to transcribe voice input and generate meeting summaries in under **2 minutes**, streamlining documentation and collaboration.

Achievements

- Won the **Best Beginner Team** Award at the **Hack This Fall 4.0 Hackathon**.
- Secured **2nd place** out of 50+ teams in a college-wide hackathon with project **KrishiSeva**.
- Secured Global Ranks of **97, 393**, and **967** in **CodeChef's** Starter out of 25,000+ participants.
- Attained **3-star (Max 1680)** at **Codechef** and **Pupil Max(1300)** rating on **Codeforces**.
- Secured Rank 136 in CodeStudio Contest **136** and earned the Knight Badge on **LeetCode**, placing in **top 5%** globally .

Position of Responsibility

Coordinator, Training and Placement Cell   **Sep 2024 − Pre**

Coordinator, IoT Wing   **Oct 2023 − May 2024**