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EDUCATION

Degree/Certificate	${\bf Institute/Board}$	CGPA/Percentage	Year
B.Tech., CSE	Indian Institute of Technology, Bhilai	8.96	2022-present
Senior Secondary	Central Board of Secondary Education	94.2%	2022

EXPERIENCE

RECOGX[Certificate], | > |

April 2024 - May 2024

React Native application development intern

Remote

- Developed a cashless smart card system, serving 10,000+ students across various institutions in India.
- Implemented the backend using the MERN stack and created a user-friendly mobile app with React Native.

FELLOWSHIP

Smart Attendance System

Jan 2025 - present

TIH Fellow, IIT Bhilai

- Biulding a biometric smart attendance system using RetinaFace for face detection and FaceNet for face recognition, integrated with RFID technology (ISO/IEC 14443) for secure authentication
- Implemented on the MERN stack, the system automates attendance marking, saving 100% of classroom time spent on manual attendance
- Authored a review paper on face detection and verification techniques submitted to ICCV 2025

ACHIEVEMENTS

Competitive Programming and problem solving

As an enthusiast in Algorithms I have solved 1000+ DSA questins and participated in over 30+ contests.

- Specialist @ codeforces (max rating 1456) Codeforces, Leetcode profile Leetcode
- Secured 4th position in Intra-College Trustathon hackathon based on CDAC device **TrusToken** Github

PROJECTS

Manim Gen - Google Hack2skill hackathon

March 2025-present

Flask, Agentic AI, LLMs, AWS



- Engineered a **agentic RAG** based pipeline that converts YouTube lectures into interactive Manim-rendered animations using Gemini-based content extraction and LaTeX generation.
- Designed an LLM-driven architecture with a Planner Agent for semantic chunking, and keypoint extraction
- Implemented a Codegen Agent for dynamic scene generation using Manim

ML Project - Metro Line Prediction System

October 2024 - November 2024

Flask, Pytorch, Graph Neural Networks



- Developed a machine learning model and a software to predict the **optimal metro line** for public based on factors like **location**, **suburb**, **district and population** collected from OpenStreetMap and overpy
- Preprocessed and analyzed large datasets consisting of districts, population achieving 91% prediction accuracy
 using the Graph convolution model on our custom created city graphs

SKILLS

Programming Languages: : C,C++,Python,Java,Shell Script,Javascript,PHP,Typescript

Technologies: NodeJS, React, React Native, Pytorch, MongoDB, PostgreSQL, Langchain, Agentic AI

Tools: Git, Docker, LaTeX, Arduino IDE, Gurobi, Adobe Illustrator, Figma,

KEY COURSES TAKEN

Computer Science and maths: Algorithm & Data Structure, Operating System, DBMS, Probability and statistics, Linear Algebra, Calculus, Discrete Math , Computer Networks, Cryptography, Nand2Tetris , Machine Learning, Principles of Programming Languages, Theory of computation, Compiler Design , Computer Organisation and Architecture, DIP, Quantum Computing, Graph Theory, Network Science

Positions of Responsibility