Chhavi Bhatt

📞 +91 7355029863 | ✉️ 23cs2019@rgipt.ac.in | 🔗 linkedin.com/in/chhavi-pradeep-bhatt | ⚪ Github profile

EDUCATION

Rajiv Gandhi Institute of Petroleum Technology, Jais, India — 2023 – 2028
Integrated Dual Degree (B.Tech + M.Tech) — Computer Science & Artificial Intelligence
Patna Doon Public School, Patna — Class XII (CBSE): 87% — 2020 – 2022
Amity International School, Lucknow — Class X (CBSE): 97.2% — 2020

EXPERIENCE

Backend Developer — June 2025 – July 2025
Knaptix — *Remote*
- Participated in the end-to-end software development lifecycle including requirement analysis, backend API design, implementation, testing, and deployment of MERN-based applications.

Project Intern — April 2025 – September 2025
IEEE CS Bangalore Chapter — *Remote*
- Developed and validated an AI-powered voice assistant using NLP pipelines for real-time interaction.

Research and Development Intern — May 2024 – September 2024
Yapassio Pvt. Ltd. — *Remote*
- Explored 200+ career domains to design and prototype an automated testing system for scalable career pathway assessment.

TECHNICAL SKILLS

Languages: C++, Python, C
Competitive Programming: Solved 450+ Data Structures & Algorithms problems across LeetCode
Core Computer Science: Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, Discrete Mathematics, Probability & Statistics, Linear Algebra, Computer Architecture, Embedded Systems
Web Development: HTML, CSS, JavaScript, React.js, Node.js, Express.js, Flask, Version Control (Git)
Databases: MongoDB, MySQL, Neo4j
DevOps & Tools: Docker, CI/CD (GitHub Actions), GitHub, API Testing, Debugging and Logging
Machine Learning (Working Knowledge): Natural Language Processing, Speech Processing (ASR, TTS), Computer Vision, Scikit-learn (model experimentation), PyTorch (model inference and prototyping)
Soft Skills: Technical Writing, Public Speaking, Strong Communication, Analytical Thinking, Teamwork, Problem-Solving

PROJECTS

Web3 FraudTrail Intelligence System | *Ethereum, Hardhat, Moralis API, Python, Flask, Neo4j* — November 2025
- Built a real-time blockchain transaction traceability system, optimizing Neo4j graph traversals and wallet-linking logic to reduce multi-hop query latency.
- Developed a production-grade analytics dashboard with tamper-evident cryptographic hashing and automated alerts, enabling correlation of on-chain activity with off-chain financial entities.

CTrace Debugger | *C, Linux, ptrace, GDB, Makefile* — September 2025
- Developed a command-line debugger in C on Linux using ptrace, supporting breakpoints and instruction-level stepping with optimized process control. Reducing debugging overhead during repeated execution and stepping cycles.
- Migrated a legacy 32-bit binary to a 64-bit Linux environment, resolving ABI, memory layout, and system-call incompatibilities; benchmarked stability.

GeoNexus AI | *React, Tailwind CSS, Flask, Neo4j, Python, OpenAI GPT-4* — June 2025
- Developed a multilingual GraphRAG-based chatbot integrating hybrid web scraping, real-time API ingestion, and automated Neo4j knowledge graph updates.
- Enabled plug-and-play deployment with fault-tolerant backend pipelines, ensuring structured data handling, reliable AI inference, and up-to-date responses across domains.

EmotiVox 2.0 | *React, Tailwind CSS, Node.js, Python, JavaScript, Coqui TTS* — March 2025
- Led the complete end-to-end software development lifecycle for EmotiVox 2.0, from requirement analysis and system design to backend API development, AI model integration, deployment, and post-deployment iteration.
- Developed and deployed a real-time speech pipeline integrating emotion-aware NLP, bilingual ASR, and voice cloning using Coqui TTS. Implemented error handling, logging, and performance validation.

ACHIEVEMENTS

- **Devbhoomi CyberHack 3.0 (Uttarakhand Police & STF)** | *2nd Runner-up for blockchain-based fraud-trail intelligence system*
- **ACM India Summer School'25 at IIT Gandhinagar** | *Selected amongst top 40 students out of 500+ applicants*
- **IEEE KodeKurrent Season 1 - 2025** | *1st runner up, AI voice cloning solution*
- **HPCL MEL Energy Quest 2.0 - 2025** | *Finalist. Advanced through national-level assessments in AI/ML, data analysis, and energy domain challenges*
- **GFG HackaGeek Hackathon'24** | *2nd place, ML driven web app for emotion-infused TTS*
- **SPHINX'24 - 24 hour hackathon at MNIT JAIPUR** | *Ranked amongst top 10 teams out of 4000 participants*
- **DPBH'23- Hackathon by Government of India** | *Semi finalist, ideated a fake website detection browser extension*

POSITIONS OF RESPONSIBILITY

General Secretary | *IEEE Student Branch* — September 2025 - Present
Editorial and PR Head | *IEEE RGIPT Student Branch* — September 2024 - September 2025