

Divyanshu Patel

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Summary

Third-year B.Tech student in Artificial Intelligence and Machine Learning at VIT Chennai with strong skills in data structures, algorithms, and full-stack development. Experienced in solving real-world problems using scalable and intelligent systems, with project experience like EchoSoul — an AI-driven emotional voice communication app. Proficient in C++, Java, React, SQL, and mobile-first development. Actively participates in coding contests and hackathons, with a sharp focus on system design, emotional AI, and product-oriented thinking. Eager to contribute as a Software Development Intern at Flipkart through GRID.

Education

Vellore Institute of Technology (VIT)

08/2023 – 07/2027

Computer Science and Engineering (CSE) - Specialization in Artificial Intelligence and Machine Learning (AIML)
Chennai

Skills

Programming Languages: C++, Java, Python, JavaScript, HTML, CSS

Technologies & Frameworks: React, Android App Development, Firebase, SQL, Git & GitHub, Expo

Specializations: Data Structures & Algorithms, Web Development, Emotional AI & Voice Tech, UI/UX Design Thinking, Problem Solving

Interests

- Software Development & System Architecture
- Product Engineering
- Emotional AI & Human-Centered Tech
- Hackathons & Innovation Challenges
- Voice Interaction Interfaces
- Frontend Engineering & Design Systems
- Startup Tech Culture
- Learning through Open Source & Dev Communities

Projects

Leukemia Diagnosis System - EfficientNetV2 vs CNNs

[GitHub](#) [🔗](#)

- Developed AI-powered leukemia detection system achieving **98.93% accuracy** using EfficientNetV2-S with transfer learning
- Implemented comprehensive comparison framework with traditional CNN (89.42% accuracy) across 3,256 medical images

- Integrated Grad-CAM visualization for interpretable AI decisions, validating clinical relevance of model attention patterns
- **Technologies:** Python, TensorFlow, OpenCV, Grad-CAM, Medical Image Processing

Neumorphism UI Generator

[Live Demo](#) 

- Built interactive design tool with real-time preview and instant CSS code generation for neumorphic UI elements
- Implemented dynamic controls for colors, shadows, shapes with 4 variants (Flat, Concave, Convex, Pressed)
- Created responsive, zero-dependency web application with smooth animations and clipboard integration
- **Technologies:** Vanilla JavaScript (ES6+), CSS3, HTML5, Interactive Design

CVLA: Complex Visualizer and Linear Algebra Platform

[Live Demo](#) 

- Developed AI-powered educational platform transforming abstract mathematical concepts into interactive visualizations
- Engineered complex function visualization using domain coloring, matrix transformations, and eigenvalue exploration
- Built comprehensive learning tool with real-time 2D/3D visualizations and guided examples
- **Technologies:** Python, Streamlit, Matplotlib, Plotly, NumPy, SciPy

YouTube Video & Playlist Downloader

[GitHub](#) 

- Created versatile media downloader with batch processing, custom resolution selection, and progress tracking
- Implemented user-friendly CLI with colorful terminal output, animated progress bars, and intelligent error handling
- Designed flexible download options for audio-only, video-only, or combined formats with playlist support
- **Technologies:** Python, pytube, CLI Design, Media Processing

EchoSoul - AI Emotional Voice Communication

2024

- Developed innovative mobile app analyzing emotional states through AI-powered voice processing
- Implemented real-time emotion recognition with personalized communication experiences
- **Technologies:** React Native, Python, Firebase, Voice Processing, Emotion AI

Experience & Activities

Active Competitive Programmer & Open Source Contributor

2023 – Present

Various Platforms

- Regularly participate in coding contests on platforms like Codeforces, LeetCode, and HackerRank
- Contribute to open-source projects with focus on educational technology and developer tools
- Mentor junior students in programming concepts and competitive programming strategies
- Active member of developer communities, sharing knowledge through blogs and technical discussions