Divyanshu Patel

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Summary

Computer Science undergraduate (AI/ML) with experience in building and deploying production-grade mobile and machine learning systems. Independent developer of a Flutter application serving **4,000+ users**. Strong in full-stack development, cloud-backed architectures, and performance optimization.

Education

Vellore Institute of Technology (VIT), Chennai   *Aug 2023 – May 2027*
B.Tech in Computer Science and Engineering (AI & ML)
CGPA: **8.8/10**

Experience

Independent Software Developer   *Jan 2024 – Present*
VIT Verse — Campus Companion Mobile Application   Live

- Solely designed, developed, deployed, and maintained a production Flutter application used by **4,000+ active students**.

- Owned complete system lifecycle including UI/UX, frontend, backend integration, database design, authentication, deployment, and monitoring.

- Built offline-first architecture using Firebase, Supabase, SQLite, and RESTful APIs for reliability and scalability.

- Integrated Google Cloud Storage for media handling and Firebase services for authentication, real-time sync, and push notifications.

- Optimized performance using lazy loading, caching strategies, and Provider-based state management.

- *Tech: Flutter, Firebase, Supabase, SQLite, Google Cloud Storage, REST APIs, Provider, GitHub, Vercel*

Projects

Leukemia Diagnosis System   GitHub
- Built deep learning pipeline using EfficientNetV2S achieving **98.93% accuracy** on 3,256 medical images.

- Applied transfer learning and Grad-CAM for explainable model predictions.

- *Tech: Python, TensorFlow, OpenCV, NumPy*
    Himalayan Expedition Success Prediction   GitHub
- Developed ML pipeline on **89,000+ records** using ensemble models and deployed via Streamlit.

- *Tech: Python, scikit-learn, TensorFlow, Streamlit*
    CVLA – Complex Visualizer & Linear Algebra Platform   Live
- Created real-time visualizations for complex functions and matrix transformations.

- *Tech: Streamlit, NumPy, SciPy, Plotly*

Technical Skills

Languages: C++, Java, Python, JavaScript, Dart
Frameworks: Flutter, React, TensorFlow, scikit-learn, Streamlit
Cloud & Backend: Firebase, Supabase, Google Cloud Storage, SQLite, SQL, REST APIs
Core Areas: Mobile Development, Full-Stack Systems, Machine Learning, Deep Learning, Explainable AI, Data Structures, System Design
Tools: GitHub, Vercel, Grad-CAM

Interests

Scalable Systems, Product Engineering, Hackathons, Open Source Contributions, Startup Culture