

Aditya Dhakarwal

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EDUCATION

VIT Bhopal University, Bhopal, Madhya Pradesh
B.Tech in Computer Science (E-Commerce) — CGPA: 8.13/10

Expected May, 2026

TECHNICAL SKILLS

- **Programming Languages:** C++, Python, JavaScript, Node.js, React.js
- **Frameworks & Tools:** Express.js, Flask, Firebase, Git, Postman, Google Workspace, MATLAB, Excel
- **Databases:** MongoDB
- **Concepts:** OOP, REST APIs, Data Structures & Algorithms, Problem-Solving, System Design, Machine Learning (TensorFlow, scikit-learn, OpenCV, Pandas)

TECHNICAL PROJECTS

Smart Farming & AgriDrone App

Feb, 2024 – Jun, 2024

Tech Stack: React Native — Flask (Python) — TensorFlow — scikit-learn — OpenCV — Pandas — REST APIs

- Developed a mobile-first farming app using React Native & Flask backend, integrating 4 ML models for crop disease detection, soil analysis, irrigation, and crop recommendation.
- Built APIs for real-time image upload and analysis, returning labeled results with suggestions in JSON, ensuring fast response without storing farmer data.
- Designed a green, leaf-themed UI with scrollable pages; envisioned drone integration for crop/soil sampling and automated farmer updates.

AI-Powered Rural Banking App

Mar, 2024 – Jan, 2025

Tech Stack: React.js — Node.js — Firebase — MongoDB — Pandas — scikit-learn — eKYC APIs — Data Security

- Built a scalable mobile-first banking app in React.js, serving 500,000+ rural users.
- Embedded an AI-based credit scoring model with Pandas/scikit-learn, profiling 10,000+ applicants per month.
- Automated eKYC with Aadhaar verification, reducing onboarding time by 40%.
- Designed a secure backend with Node.js + Firebase, achieving 99.9% uptime and strong data integrity.
- Gamified savings features to improve financial literacy, leading to a 25% increase in engagement during testing.

Voice-to-Sign Recognition System

Sep, 2023 – Jan, 2024

Tech Stack: Python — TensorFlow — OpenCV — scikit-learn — Speech Recognition APIs

- Engineered a real-time translator trained on 300+ voice-sign gesture pairs to support diverse accents and tones.
- Automated API documentation and data flow logging, saving 10+ hours of manual work weekly.
- Integrated speech recognition APIs and gesture mapping into a unified UI, tested with 20+ hearing-impaired participants for clarity and responsiveness.

HACKATHONS & CHALLENGES

Tata Imagination Challenge 2024 – National Semi-Finalist

- Proposed a scalable agri-tech solution, selected among the top 50 nationwide teams.
- Ideated and pitched an end-to-end AI workflow under tight deadlines.

EY Techathon 2025 – National Semi-Finalist

- Collaborated in a 4-member team to design an AI-powered compliance prototype, shortlisted from 15,000+ participants.
- Applied problem-solving and project management skills under tight deadlines.

EXTRA-CURRICULAR ACTIVITIES

NSS Club, VIT Bhopal

Jan, 2024 – Feb, 2025

- Participated in a mock youth parliament, simulating policy discussions to enhance strategic thinking.

Sports Society – VIT Bhopal

Feb, 2023 – Mar, 2024

- Competed in intra-college basketball tournaments, demonstrating teamwork and discipline.

CERTIFICATIONS & TRAINING

- Gen AI using IBM Watsonx
- Foundations of Digital Marketing & E-Commerce (Google)

ADDITIONAL INFORMATION

- Languages: English (Professional Working Proficiency), Haryanvi and Hindi (Bilingual Native Proficiency)
- Hobbies: Basketball, Cricket, Badminton, F1