

# Dhananjay Rana

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## EDUCATION

### VIT Bhopal University

*Bachelor of Technology in Computer Science and Engineering*

- Cumulative GPA: 8.55/10

Bhopal, Madhya Pradesh

*Expected May 2026*

### DAV Public School

*CBSE 12th Standard*

- Percentage: 94.5%

Yamuna Nagar, Haryana

*May 2021*

## TECHNICAL SKILLS

**Languages:** Python, C, C++, HTML, JavaScript

**Machine Learning:** ML Algorithms, Pandas, NumPy, TensorFlow, PyTorch, NER, NLP, Transformers, LLMs

**Web Technologies:** React.js, Express.js, FAST API, MongoDB

**Tools:** Git, GitHub, Jupyter Notebook, Cursor, VS Code, Render, Framer

## PROJECTS

### Document Digitization System | *Python, CRAFT, TrOCR, SpaCy, Transformers*

January 2025 - Present

- Built an OCR system using CRAFT and TrOCR for handwritten text recognition.
- Applied preprocessing and spell correction to improve recognition accuracy.
- Extracted entities with transformer-based NER and generated searchable PDFs.
- Automated batch processing for handwritten document images.

### Crop Prediction Model | *Python, Scikit-learn, Pandas, NumPy, FAST API*

October 2024

- Developed model processing 10,000+ agricultural records with 92% accuracy.
- Engineered features from soil, rainfall, temperature, and pH data.
- Implemented Random Forest, Gradient Boosting, and Logistic Regression models.
- Created web interface for real-time predictions and recommendation engine.

### VITAS: Event Management System | *HTML, CSS, JS, React.js, Express.js, MongoDB*

April 2024

- Developed a 5-member team project for university event management system.
- Implemented user-friendly platform for organizers and attendees with secure authentication.
- Created features for browsing events, viewing details, and registration.
- Learned collaborative development and group harmony in team environment.

## EXTRACURRICULAR

### BlockDAG Hackathon | *Contributor*

2025

- Enhanced the structured Smart Contracts with the integration of required ML models.

### Future\_Wear Hackathon | *Team Leader*

2024

- Guided team in designing and developing data models incorporating 5 algorithms

### Technical Practice | *Self Learning*

Present

- Exploring Machine Learning algorithms and AI concepts
- Practicing Python on HackerRank
- Solving Data Structures problems on LeetCode

### Community Engagement | *Volunteering*

2023-Present

- Volunteered for Gujarati club, contributing to cultural events
- Active member of Sports club, participating in and organizing sports events
- Participated as a dancer in multiple performances

## CERTIFICATIONS

### IBM Gen AI Certification

2025

### Supervised Machine Learning: Regression and Classification | *Coursera*

2025

### Advanced learning Algorithms | *Coursera*

2024