

Dhananjay Rana

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EDUCATION

VIT Bhopal University

Bachelor of Technology in Computer Science and Engineering

- Cumulative GPA: 8.57/10

DAV Public School

CBSE 12th Standard

- Percentage: 94.5%

Bhopal, Madhya Pradesh

Expected May 2026

Yamuna Nagar, Haryana

May 2021

TECHNICAL SKILLS

Languages: SQL, Python, C++, JavaScript

Data Analysis: Tableau, Power BI, Advanced Excel(Pivot Tables, VLOOKUPS), Pandas, NumPy, Matplotlib, Seaborn

Machine Learning: ML Algorithms, Scikit-learn, TensorFlow, PyTorch, NLP, Transformers, LLMs

Web Developer Tools: React.js, FastAPI, MongoDB, Git, GitHub, Jupyter Notebook, VS Code

PROJECTS

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

March 2025

- Engineered a data pipeline to extract and structure textual data from handwritten documents using OCR.
- Performed data cleaning and preprocessing, including spell correction, to improve data quality for analysis.
- Utilized NER to identify and categorize key entities, converting unstructured text into a searchable, structured dataset.
- Automated the data extraction process for batch processing, improving efficiency for large-scale data ingestion.

Crop Prediction Analysis | Python, Scikit-learn, Pandas, NumPy, FAST API

October 2024

- Conducted exploratory data analysis (EDA) on 10,000+ agricultural records to identify key factors influencing crop selection.
- Performed feature engineering on soil, rainfall, and pH data to prepare the dataset for predictive analysis.
- Used regression models to analyze the relationships between environmental factors and crop suitability.
- Developed a user-facing dashboard for real-time interaction and presentation of analytical insights.

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

April 2024

- Designed and implemented a system for managing structured data related to university events and user registrations.
- Enabled the collection of user engagement data (e.g., event views, registration trends) for future analysis.
- Collaborated in a 5-member team to develop a platform with secure authentication to ensure data integrity.
- Created features to browse and register, providing a source of raw data for user behavior analysis.

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

- Practicing advanced SQL problems on platforms like LeetCode and HackerRank.
- Exploring Data Analysis techniques and Machine Learning concepts.
- Solving Data Structures problems to strengthen foundational programming skills.

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