

ADITYA DUBEY

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EDUCATION

VIT Bhopal University, Bhopal — B.Tech in Computer Science and Engineering

Sep 2022 – May 2026

CGPA: 8.82/10 | Bhopal, Madhya Pradesh

- Cultivated advanced analytical and computational skills through rigorous coursework in computer programming, data structures, machine learning, and software engineering principles, emphasizing problem analysis, algorithm design, and system optimization.

PROJECTS

EarthMark: Eco-Score Check for Sample Products on Amazon

Nov 2024 – Dec 2024

- Developed **EarthMark**, a full-stack application leveraging React.js, Node.js, and MongoDB to calculate eco-scores for **20+ sample products** using a structured **JavaScript object dataset**.
- Engineered a robust **eco-score calculation system** with an **85% accuracy rate**, enabling detailed assessments of product sustainability to inform consumers in real time via a responsive frontend design framework.
- Developed and integrated a visually appealing React.js frontend with RESTful APIs, enhancing data retrieval speed by 30%, resulting in an optimized user experience for the EarthMark application.
- Built and rigorously tested a **RESTful API** using Postman to ensure effective communication between backend services and the frontend, enhancing application performance.
- Earned a spot among only **100 finalist teams** in the highly competitive **Amazon Sambhav Hackathon 2024** out of more than a thousand participants, highlighting exceptional collaboration efforts and advanced technical capabilities within project development.

Handwriting Detection System using Machine Learning

Feb 2024 – May 2024

- Integrated **OpenCV** for image preprocessing and **Pytesseract** for optical character recognition (OCR), achieving a **30% enhancement** in image analysis accuracy.
- Designed and trained a machine learning model with **85% accuracy** in recognizing handwritten text across diverse document types.
- Built a user-friendly web application using **Streamlit**, ensuring real-time results with a response time of under 2 seconds.
- Conducted a comprehensive literature review of **17+ research papers**, synthesizing insights into a detailed report covering architecture, performance, and future enhancements.
- Automated the deployment pipeline, enabling seamless integration of machine learning models into the web application for production-ready scalability.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, Java, JavaScript, SQL.
- **Frontend Development:** HTML, CSS, React.js, Responsive Design.
- **Backend Development:** Node.js, Express.js, Postman.
- **Database Management:** MongoDB, MySQL, NoSQL, PL/SQL.
- **Version Control:** Git, Github.
- **Machine Learning & Tools:** NumPy, Matplotlib, Pandas, Scikit-learn, OpenCV, Pytesseract.
- **Cloud & Data Analytics Tools:** AWS, Excel.
- **Core Competencies:** Data Structures and Algorithms, DBMS, Object-Oriented Programming (OOP), System Design.

ACHIEVEMENTS/CERTIFICATIONS

- **2nd round selection**— Amazon Sambhav Hackathon | Dec 2024
- **Foundations of Data Science: K-Means Clustering in Python** - Coursera | Aug 2024
- **Cloud Computing (Silver Medal)** — NPTEL | Apr 2024
- **The Bits and Bytes of Computer Networking** — Coursera | Dec 2023
- **MATLAB Onramp & Simulink Onramp** — MathWorks | Sep 2022