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 team**s 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*