

ABHINAY SINGH BHADAURIA

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Education

VIT Bhopal University | CGPA: 8.86

Bachelor of Technology in Computer Science and Engineering

Sep. 2022 – May 2026

Bhopal, Madhya Pradesh

Prabhat Sen. Secondary School | XII: 84.2%

Stream: Physics, Chemistry, and Mathematics

Jul. 2021

Kanpur, Uttar Pradesh

The Jain World School | X: 94.2%

Stream: Physics, Chemistry, and Mathematics

Jul. 2019

Mawar, Uttar Pradesh

Relevant Coursework / Professional Summary

- Data Structures and Algorithms
- Database Management System
- Computer Networks
- Microcontroller/Microprocessor
- Cloud Computing
- Programming in C++ and Java

Projects

Bundeli LokGeet | *React.js, Express.js, MongoDB, Node.js* [Project link]

Dec 2024 - Feb 2025

- Engineered a platform facilitating users to discover and reserve Gayak of LokGeet for specific dates and times.
- Streamlining bookings with acceptance or rejection options to Gayak.
- Enhanced efficiency by automating booking confirmations, reducing manual intervention, and improved user experience.
- Implemented secure authentication using bcryptjs and jsonwebtoken, ensuring user data protection.

Carbon Footprints Detection | *Machine Learning, Data Analysis, Typescript* [Project link]

Jan 2024 – Mar 2024

- Developed a Carbon Footprint Detection system using Machine Learning and Python with an accuracy of 98.35% predicting a user's carbon emissions in percentages based on the input data.
- Processed environmental data for over 10,000 test cases and designed a user-friendly input test to estimate emission.
- Optimized data manipulation using NumPy and Pandas, resulting in a low mean absolute error (MAE) of 0.02. Gradient Boosting Regressor was used for model training, achieving accurate carbon footprint predictions in kg/month.
- Designed frontend using Typescript with smooth UI/UX, integrating real-time statistics from Our World in Data API.

Udaan (Flight Booking Backend App) | *JavaScript, SQL, Microservices*

Sept 2023 – Feb 2024

- Implemented a Microservices Architecture using MVC (model-view-controller) framework to modularize the flight booking system with separate services for authentication, booking, search, reminders, and ticketing, achieving high scalability and streamlined maintenance. [Link: <https://github.com/AbhinayBhadauria99/FlightAndSerachService>]
- Enabled Robust Authorization with JWT in the AuthService, alongside standardized HTTP status codes and error handling for consistent, clear responses and debugging support.
- Utilized RabbitMQ for Asynchronous Communication and deployed an API Gateway with Express and Rate Limiting, efficient routing, traffic control, and seamless service integration with middleware and logging for robust monitoring.

Experience

Oasis Infobyte

Oct 2024 – Ongoing

Python Programming Intern

- Developed AI-driven applications leveraging Natural Language Processing and graphical user interfaces (Tkinter, PyQt) for enhanced user interaction and functionality.
- Implemented robust networking and API integration techniques to create real-time communication and data retrieval capabilities across various projects.

Technical Skills

Languages: Python, C++, Java, HTML/CSS, JavaScript, Typescript, SQL, MongoDB

Developer Tools: GitHub, VS Code, Vercel, Jupyter Notebook, SQL, Postman, Docker, Kubernetes

Technologies/Frameworks: GitHub, WordPress, ReactJS, Tailwind CSS

Certifications and Achievements / Extracurricular

- Among the top 1% students to clear NPTEL Cloud Computing Course (Elite+Gold certificate)
- Bits and Bytes of computer networking (Coursera) Certificate and Postman API Expert Certificate.
- Smart India Hackathon: Led a team of 6 members and cleared all the internal college rounds. Selected from 300+ teams.
- Technical Core Team Member in E-Cell, Health-O-Tech, Opensource club, conducting workshops and mentoring team members on projects.