

# Ayush Kumar Gupta

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## EDUCATION

<b>Bhilai Institute of Technology</b> <i>Bachelor of technology in Electronic and Computer Science</i>	<b>8.4 CPI</b> <i>Aug. 2023 – Present</i>
<b>Nirmala rani Vidyalaya Hr. secondary school</b> <i>Higher secondary School PCM (Maths as major)</i>	<b>76.65%</b> <i>Aug. 2021 – June 2022</i>
<b>NIRMALA RANI VIDYALAYA Hr. secondary school</b> <i>High school</i>	<b>91.13%</b> <i>June 2019 - july 2020</i>

## SELF PROJECTS

- **Word Lookup Dictionary (2022):** Developed a desktop software for online lookup of English words. Implemented efficient search of valid words using Trie data structure. Implemented spelling correction and auto-suggestion using edit distance algorithm. Used web scraping to get the data for online lookup. **Python, GO** language.
- **Alternative-Routes in Road Networks (2023):** Applied Dijkstra's shortest path algorithm to find the route which takes the shortest time to travel from source to destination in a given road network with randomly generated traffic. Implemented methods to avoid collisions between vehicles by dynamically changing their speeds. Used C++ and OpenGL library for simulation. C++, OpenGL.
- **E-Commerce website(2024)-** An e-commerce project is a business initiative to develop an online store and sell goods to consumers. It includes React js ,html ,css as frontend. SQL as database. Java (spring boot) as backend. Using Paypal gate way for financial assistance.
- **Personal expense Tracker(2024)-** Developed a web-based **Personal Expense Tracker** application using **HTML, CSS, and JavaScript** to help users efficiently monitor and manage their daily expenses. Implemented features such as category-wise expense tracking, date filtering, and an interactive user interface optimized for responsiveness across devices. Designed a clean and intuitive layout using CSS for seamless user experience and JavaScript for dynamic functionality, including real-time expense updates and data storage using browser's local storage.

## COURSES, ASSIGNMENTS, AND SKILLS

**Relevant Courses:** Design and Analysis of Algorithms, Program Analysis and Verification, Computer Architecture, Linear Algebra and Probability, Machine Learning for Signal Processing, Deep Learning for Natural Language Processing.

**Skills:** C, Python, Java ,Go, MySQL ,springboot , javascript, css, numpy, Jenkins, GraphQL.

**Coding Handles:** Solved **180+** Questions on **LeetCode**.

## AWARDS AND ACHIEVEMENT

- **WORKSHOP ON UNMANNED ARIEL SYSTEM-** **VENUE-IIT BHILAI**  
*Being a part of drone simulation and well guidance in the upcoming revolution in the market Ariel systems. We get hands-on learning experience designed to explore the fascinating world of drones and their applications. It includes the in-depth Knowledge of aerodynamic ,navigation and Control-systems*
- **INTER SCHOOL VOCAL CONTEST-**  
*Win first price among 200 participants. It overcome my audience fear, raise confidence to stand on Marked words it improvised my leadership quality.*
- **Campus Ambassador Intern of E-summit in IIT Roorkee-**  
*As a Campus Ambassador, you act as a representative, bringing valuable opportunities, resources, and knowledge to your peers. This role not only enhances your leadership, communication, and networking skills but also positions you as a key influencer in your college community.*