Abhinav Gupta

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About Me

Passionate and dedicated Computer Science undergraduate specializing in Cloud Computing with strong problem-solving skills. Experienced in full-stack web development, actively learning machine learning, and exploring competitive programming. Driven by a deep interest in coding, DSA, and building impactful tech solutions.

Education

VIT Bhopal University, Bhopal	8.82 GPA
Bachelor of Technology in Computer Science, Specialization in Cloud Computing	*October 2022 - present*
Mantora Public School, Kanpur	83.2%
12th (CBSE)	*2020 - 2021*
PDDUSDV, Kanpur	91.2%
10th (CBSE)	*2018 - 2019*

Technical Skills

Languages: C/C++, Python, SQL, JavaScript, HTML/CSS
Frameworks: React, Node.js, Express, MongoDB, Tailwind CSS
Developer Tools: Git, GitHub, VS Code, Visual Studio, Postman, AWS(basics)
Libraries: pandas, NumPy, Matplotlib
Relevant Coursework: Data Structures and Algorithms, Database Management System, Object Oriented Programming, Computer Networks

Projects

Blogfinity | *MongoDB, Express, ReactJs, NodeJs*   GitHub
- Built a scalable blog platform with JWT-based authentication and role-based access for admins and users.
- Integrated Firebase for real-time data and Redux for state management, improving user responsiveness by 30%.
- Designed a fully responsive UI using Tailwind CSS, achieving 100% Lighthouse accessibility score.
- Developed secure RESTful APIs with Express and Mongoose to enable 100+ CRUD operations/sec.

HCV Detection | *Python, Scikit-Learn, RandomForest*   GitHub
- Cleaned and transformed medical datasets, reducing null data by 100% using pandas and NumPy.
- Trained a Random Forest classifier with 93.5% accuracy using GridSearchCV on 500+ records.
- Improved diagnostic performance by 20% over baseline through model tuning and feature engineering.
- Deployed a prediction function for real-time medical input, ready for Flask/streamlit integration.

ForeCast | *HTML, CSS, JavaScript, OpenWeatherAPI*   GitHub
- Built a weather app using HTML, CSS, JavaScript, and OpenWeather API with real-time data updates.
- Utilized LocalStorage for persistent city preferences, enhancing UX by 40%.
- Implemented clean UI and dynamic updates using JS event handling and fetch API.

Extracurriculars and Achievements

- Selected in the top 10% (1,500 out of 15,000+ teams) in **Amazon HackOn's** coding round.
- Solved 500+ problems across platforms including LeetCode, GeekForGeeks, Codeforces, and more.
- Completed **HTML, CSS, JavaScript for Web Developers** course on Coursera.
- Completed **Machine Learning A to Z** course on Udemy.
- Completed **Python Essentials** course by VITyarthi .
- Hobbies are Videography, Editing, Gaming and Problem Solving.

Positions of Responsibility

Core Member: iOS Club, VIT Bhopal
Core Member: Photography and Movie Making Club, VIT Bhopal