

Rajat Bansal



+91 8306595696



rajatbansal2022@vitbhopal.ac.in



LinkedIn



GitHub

Education

VIT Bhopal University

Bachelor of Tehnology in Computer Science and Engineering (CGPA: 8.6 / 10)

Oct 2022 - May 2026

Bhopal,MP

Central Academy Sr. Sec. School

Higher Secondary Examination (Class XII) - 84 percentage

April 2020 - April 2021

Alwar,Rajasthan

Step By Step Public School

Higher School Examination (Class X) - 93 percentage

April 2018 - April 2019

Alwar,Rajasthan

Projects

ML-Based Retina Health Analysis Web App |

January 2025

- Developed and deployed a Streamlit-based web application that leverages a machine learning model to analyze retina images and determine retinal health status.
- Engineered advanced image processing and feature extraction techniques to enhance model accuracy and reliability in symptom detection.
- Optimized the user interface for seamless interaction, enabling real-time retina analysis with intuitive, user-friendly functionality.

Carpool | HTML,CSS,JavaScript,Python,Docker file

Jan 2024 - Ongoing

- Designed and developed a comprehensive ride-booking and rental platform, ensuring seamless user experience.
- Implemented an intuitive and responsive interface using HTML, CSS, JavaScript, and Python to enhance accessibility and engagement.
- Optimized backend functionality with Docker for efficient deployment and scalability..

Smart Agriculture – IoT-based Smart Irrigation | IoT, Sensors, Android App, Firebase

Jan 2024 - June 2024

- Engineered an IoT-driven smart irrigation system integrating real-time sensor monitoring with automated scheduling
- Developed an Android application linked with Firebase to enable remote control and cloud-based system management.
- Optimized water usage and improved crop yield through intelligent, data-driven automation and seamless IoT-cloud synchronization.

Achievements

- Solve 500+ questions on different platforms such as CodeChef (2-star), GeeksForGeeks,LeetCode,4-star in HackerRank in Java
- Open Source Contributor in SSoC and GSSoC.
- Participated in multiple hackathons and competitions on platforms like Unstop, Hack2Skill, and GeeksforGeeks, enhancing problem-solving skills and gaining hands-on experience in innovative software development.

Activities

- Mozilla Firefox club VIT Bhopal** | *Lead of Content Team* January 2024 - Present
- BashCraft Club** — Tech Co-Lead
- Member of NSS** — Participated and organized in various

Technical Skills

Languages: Java, C++, HTML,CSS,JavaScript, React

Technologies: React,Express.js, Bootstrap, Node.js , SQL, MySQL,Git ,AWS

Certifications:MongoDB Node.js Developer Path And MongoDB Admin Path by SmartBridge , Applied Machine Learning in Python , Fundamental of AI/ML , Artificial Intelligence Machine Learning Deep Learning .