



Rudransh Rajpurohit

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in Computer Science Engineering
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EDUCATION

Degree	Institute	Board / University	CGPA	Year
MCA	Vellore Institue of Technology, Main Campus	VIT, Vellore	8.57 (Till 2nd Sem)	2024
BCA	Government Engineering College, Bikaner	MGSU, Bikaner	8.4	2022
Senior Secondary	Bikaner Boys School, Bikaner	CBSE	6.7	2019
Matriculation	Bikaner Boys School, Bikaner	CBSE	7.0	2017

PROJECTS

- **ContactVault** June 2023
MERN Based Personal Contact Management Application **GitHub**
 - Developed a powerful full stack app using ReactJS and Material UI for a user-friendly interface in which state management enabled smooth data flow. ExpressJS was used for the back-end, creating a RESTful API endpoints to handle CRUD operations on contact data. MongoDB Atlas ensured secure storage and retrieval of contacts.
- **SoilSense** May 2023
Crop Recommendation System using Real Time Data from Sensors: MCA Hackathon Group Project **GitHub**
 - Used K Nearest Neighbour Classifier for Unsupervised learning to train two ML models using soil conditions. The Raspberry Pi 3.2B, equipped with a DHT-11 sensor, collected real-time Humidity and Temperature data which was transmitted to the ML model through a Python Flask API. The front-end, built with React and MaterialUI, gathered user input and seamlessly communicated it to the ML model via the Flask API recommending the crop and fertilizer as a response.
- **Fake Product Detection using Blockchain Technology and QR Code** June 2023
MCA SET Project (Group Project) **GitHub**
 - The system uses QR codes and a decentralized Blockchain to detect and prevent counterfeit goods, ensuring authenticity. Parties can scan the QR code at every supply chain step to verify the product's authenticity, with each transaction recorded in a unique Blockchain's block. The system consists of a Python-based Blockchain deployed as a Flask API, utilizing Google Cloud Platform's Firebase for hash value storage with the front-end website built with ReactJS and MaterialUI components.
- **Dining Philosopher's Problem Simulator** Mar 2023 - Apr 2023
Individual Project **Github**
 - A web-based visualization of the classic Dining Philosophers problem, this project employs JavaScript, HTML, and CSS to showcase the intricacies of concurrent programming. Philosophers, represented by animated figures, ponder and dine, highlighting synchronization issues. Users can interactively explore potential solutions and directly observe the effects of race conditions. This tool offers a hands-on learning experience for understanding concurrency dilemmas.
- **Microsoft PowerBI HR Analytics Dashboard** September 2023
Individual Project **GitHub**
 - Leveraging PowerBI, I developed a comprehensive HR dashboard spanning four pages to provide a holistic view of our workforce. This includes insights into employee demographics, attrition trends, satisfaction levels, and job-specific analyses. The visualization tools enable actionable insights for HR strategies and decisions. This dashboard serves as a pivotal tool for understanding and enhancing employee engagement and productivity.
- **Weather API Front-end Application** **GitHub**
- **Form Validator Using Vanilla JavaScript** **GitHub**

TECHNICAL SKILLS

- **Programming Languages:** C++, Java, Python, SQL, PL/SQL, JavaScript
- **Tools and Frameworks:** Visual Studio, GitHub, Oracle Database XE, Microsoft Power BI, Postman, Jupyter
- **Web Technologies:** HTML, CSS, JavaScript, ReactJS, MaterialUI, NodeJS, ExpressJS, MongoDB

CERTIFICATIONS

- **Introduction to HTML5, CSS3, JavaScript:** University of Michigan, Coursera
- **Crash Course on Python:** Google, Coursera
- **Introduction to Cybersecurity Tools & Cyber Attacks:** IBM, Coursera
- **Cybersecurity Roles, Processes & Operating System Security:** IBM, Coursera
- **Ethical Hacking:** IIT Kharagpur, SWAYAM - NPTEL

MISCELLANEOUS

- **VIT: Code For Life Hackathon**, Best Project Certificate: SoilSense
- **Mini Project: Cloud Computing**, Hosting our Personal Cloud using Docker and NextCloud on Raspberry PI
- **Mini Project: Internet Of Things**, IoT Based Attendance Management System Using Raspberry Pi 3.2B
- **Mini Project: Network Information Security**, Exploiting WPA-2 Handshake to Crack Wifi Password
- **Hackerrank**, 5 Star Coder in C++
- **CodeChef**, 2 Star Coder in Competitive Programming Using C++
- **Hackerrank**, 3 Star Coder in Python
- **Leetcode**, Solved 90+ Problems
- **Hackerrank**, 4 Star Coder in Problem Solving