

HRITEEK ROY

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EDUCATION

ICFAI University, Tripura

B.Tech - Computer Science and Engineering - **CGPA - 9.4**

2021 – 2025

Kamalghat, Tripura

COURSEWORK / SKILLS

- | | | | |
|---------------------------------------|------------------------|-------------------------------|-------------------------|
| • Data Structure and Algorithms (DSA) | • Operating Systems | • C++ | • JavaScript and NodeJS |
| • Database Management System (DBMS) | • OOPS Concepts | • ML , AI and Computer Vision | • React js and Next js |
| | • Software Engineering | | • Image Processing |

EXPERIENCE

TIT Intern 🏢 | _

June 2023 - July 2023

- Learning about Python
- Mechanical parts about drones
- Group project about Image Classification Collaborated on a team of 5 to design and implement a convolutional ResNet for image classification, achieving 0.45 percent loss on test data, utilizing TensorFlow and Python libraries.

PROJECTS

Chat-Wiz:Real-time Chat Application 🏢 | React,Node.js, Express,MongoDB,Socket.io, JWT **2024**

- * Real-Time Communication: This application enables real-time chat functionality using Socket.io, allowing users to send and receive messages instantly and display online status
- * Secure Authentication: User authentication and authorization are managed with JSON Web Tokens (JWT) and Express middleware, ensuring secure login and access control.
- * Modern Frontend with React: The frontend is built using React, styled with Tailwind CSS and DaisyUI, and employs custom hooks to manage state and effects, providing a responsive and user-friendly interface.

MaskOn: A Real Time Face Mask Detection System 🏢 | TensorFlow, Open CV, MobileNetV2 **2024**

- * MaskOn is a computer vision project designed to detect whether individuals are wearing masks in real-time.
- * It utilizes deep learning algorithms implemented with Python and OpenCV for analyzing video streams.
- * MaskOn offers high accuracy in detecting masks, customizable thresholds, easy integration into existing systems, and scalability for handling large volumes of video streams.
- * Users can access the MaskOn dashboard, configure the video source, adjust detection thresholds if needed, and monitor the live video stream for mask detection results.

Movie Recommender System 🏢 | Python | Pandas , Numpy , Matplotlib , Sklearn **2022**

- * The project aims to develop a movie recommender system using machine learning and data science techniques to provide personalized movie recommendations to users based on their preferences and interests.
- * The system collects movie data from various sources, preprocesses it, and implements content-based filtering algorithms such as text vectorization and cosine similarity to calculate similarity scores between movies. These scores are then used to generate tailored recommendations for users, enhancing their movie-watching experience.

ICFAI FC Website 🏢 | Vite, React, GitHub Pages

2024

- * Comprehensive Club Portal: The ICFAI FC website is a dedicated platform designed to provide fans and stakeholders with an immersive experience, featuring detailed player profiles, upcoming and past fixtures, a dynamic gallery, and the latest news and updates about the club.
- * Modern Technology Stack: Utilizing Vite for fast and efficient builds, React for a responsive and dynamic user interface, and GitHub Pages for seamless deployment, the project ensures high performance, scalability, and ease of maintenance.
- * User-Centric Features: The website includes an integrated content management system for timely updates, a contact section for easy communication, and a visually appealing design that highlights the club's values and key moments, fostering a strong connection between the club and its supporters.

TECHNICAL SKILLS

Languages: C++, C, JavaScript, SQL, Python , Java

Technologies/Frameworks: HTML5, CSS3, Django, MongoDB, Express, React, NodeJS, Bootstrap,Streamlit

Developer Tools: VS Code, PyCharm, Google Colab, Jupyter Notebook , Spyder

Coding Platforms

- **Code Studio:** Solved **150+** Problems [↗](#)
- **GeeksforGeeks and InterviewBit:** Solved 500+ Problems [↗](#)
- **Codeforces:** Max Rating 1100 [↗](#)

CERTIFICATIONS

- Machine Learning A-Z: AI, Python And R - Udemy
- Deep Learning A-Z: AI, Neural Networks And ChatGPT - Udemy
- The Complete JavaScript Course 2024: From Zero to Expert!
- ECE Website Using HTML And CSS

EXTRACURRICULAR

- Taught basic C++/DSA in offline Mode. 05-2023 – 12-2023
- NSS Member from 2019 to till now