VISHAL KUMAR | 20ME31048

MECH.ENGG. MANUF.SCIENCE & ENGG. (M.Tech Dual 5Y)
MICRO SPL. in ARTIFICIAL INTELLIGENCE AND APPLICATIONS

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025	M.TECH Dual Degree 5Y	IIT Kharagpur	8.25 / 10
2019	12th Board	RBSE	88.80%
2017	10th Board	RBSE	90.17%

PROJECTS

Covid-19 management system in C++ | Self Project

• Objective to developa COVID-19 Management System using C++ is to create a software application that effectively manages and tracks information related to COVID-19 cases. The system allows users, such as healthcare professionals, administratorsto perform various tasks related to COVID-19 management.
• Utilizedconcepts of Object Oriented Programming to implement different classes. Used file handling for data storage and retrieval.

Real Time Chat Application | Self Project

• Developeda real-time chat application using React.js and Firebase.
• Implemented dynamic user interfaces, emphasizing responsiveness and seamless user experiences. Integrated Firebase for real-time data synchronization, user authentication, and secure cloud-based storage.Ensured personalized user experiences through robust authentication mechanisms.

Personal Portfolio Website | Self Project

• Developed a responsive and interactive personal portfolio website using React, HTML, CSS, and JavaScript, Bootstrap.
• Showcased my skills, projects, achievements, and contact information in a modern and elegant design.
• Implemented features such as smooth scrolling, animations, dark mode, and contact form using React hooks, libraries.

SKILLS AND EXPERTISE

Programming Languages :C++, C, Python, Sql, HTML, CSS, JavaScript
Libraries/Tools : NumPy, Pandas, React, Bootstrap
Software : Git, Jupyter Notebook, Github, VS code, Pycharm

COURSEWORK INFORMATION

Computer Science : Programming and Data Structure | Machine Learning Foundations and Applications | Artificial intelligence: Foundations and Applications
Mathematics : Advanced Calculas | Linear Algebra | Partial Differential Equations | Transform Calculas

AWARDS AND ACHIEVEMENTS

• Secured a rank of 1726 in JEE Advanced 2020.
• Receiving **Merit-Cum-Means** scholarship from last 3 years.
• Among top 1.5% qualified candidates in JEE mains 2020.

COMPETITION/CONFERENCE

Codeforces

• Codeforces competitor with highest rating of 1460 (specialist), showcasing strong problem solvibg skills in competitive programming. (Handle : Vishal_code)

Codechef

• Secured a rank of 196 among 15,000 competetors in **codechef Starter 94**. (Handle : vishal_kumar3)
• 4 star on Codechef

Hackercup by Facebook

• Secured a global rank of 3447 in round 2 of HackerCup 2023.

EXTRA CURRICULAR ACTIVITIES

Sports and Technology General Championship
•Represented Acharya Jagdish Chandra Bose hall of residence in the General Championship in cricket and athletics.
•Helped freshers in programming by taking part in Student Welfare Groups's PDS doubt clearing sessions.
Volunteer, National Service Scheme(NSS), IIT Kharagpur
•Actively volunteered in distribution of everyday essentials in underdeveloped rural areas as a part of NSS.
•Educated and mentored underprivileged kids in the campus vicinity thus contributing towards a literate India.
Worked as campus ambassador for Internshasla in 2023.