



UDAY SUTRADHAR

METALLURGICAL & MATERIALS ENGG. (B.TECH 4Year)

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EDUCATION

Degree/Exam	Institute	Year	CGPA / Percentage
B. tech in Metallurgical & Materials Engineering	Indian Institute of Technology, Kharagpur	2022-2026	6.17 / 10
Higher Secondary education (C.B.S.E)	Sarada Vidya Mandir, Raiganj	2021	85.2%
Secondary Education (C.B.S.E)	Sarada Vidya Mandir, Raiganj	2019	87.6%

EXPERIENCE

Web Development Internship | CodSoft, Remote

[15th Aug- 15th Sep]

- Got a hands on experience on a 4 week internship on web development from the mentors of CodSoft
- Done several web development tasks assigned with in a limited time frame to give the full experience of timely schedules
- Participated In various Challenges given by the mentors to enhance the coding skills with error manipulation
- Learned ReactJS, ExpressJS, MongoDB & NodeJS and made the full replica of the company website

PROJECTS

AI CHAT BOT | Self Project

[Apr 2023 - Present]

- Independently conceptualized, designed, and implemented a chatbot using natural language processing techniques
- Developed the chatbot from scratch, utilizing Python and natural language processing libraries
- Trained the chatbot to understand and respond contextually to user queries, Implemented conversation flow logic to enhance user engagement and overall user experience
- Successfully designed and deployed a self-made chatbot, showcasing proficiency in natural language processing and autonomous project development

MULTIPLE DISEASE PREDICTOR | Self Project

[15th Jan - 18th Jan]

- Developed a predictive model for multiple diseases using machine learning algorithms
- Gathered diverse datasets for training and testing purposes, Identified crucial features for disease prediction using feature importance analysis
- Implemented algorithms and fine-tuned hyperparameters for optimal performance, Assessed model accuracy, precision, recall, and F1 score
- Successfully developed and deployed a disease prediction system with a focus on accuracy, user-friendliness, and ethical considerations

CHESS | Self Project

[Sep 2023 - Present]

- Designed a fully functional chess game using HTML, CSS, and JS, Utilized HTML for structuring, CSS for styling, and JS for interactive functionalities
- Designed an intuitive and visually appealing chessboard interface with responsive elements
- Programmed the chess logic, including legal move validation and checkmate conditions, smooth animated movements for pieces, enhancing user experience
- Successfully developed and deployed a chess game showcasing proficiency in HTML, CSS, and JS, demonstrating a keen eye for design and user experience

TWITTER CLONE | Self Project

[20th Dec - 22nd Dec]

- Created a fully functional Twitter clone to replicate core features using React.js, MongoDB, and Tailwind CSS
- Implemented the user interface using React.js, providing an intuitive and responsive design, Designed a polished and professional appearance using Tailwind CSS, emphasizing a clean and modern aesthetic
- Utilized MongoDB for efficient data storage and retrieval, ensuring seamless user interactions
- Successfully delivered a Twitter clone with a focus on user experience, real-time functionality, showcasing proficiency in React.js, MongoDB, and Tailwind CSS

UDAY GARMENTS | Self Project

[23rd Jan - 7th Feb]

- Utilized React JS for the frontend, MongoDB for database management, and Express & Node JS for backend development
- Engineered a responsive and intuitive user interface with React JS, ensuring a smooth browsing experience, Implemented robust server-side logic using Express & Node JS, facilitating secure and efficient data handling
- Integrated MongoDB to organize and manage product information and user data, optimizing retrieval and storage processes
- Implemented authentication mechanisms to ensure secure user accounts and personalized experiences
- Delivered a feature-rich, scalable, and user-friendly e-commerce website, enhancing the overall online shopping experience

PORTFOLIO-WEBSITE : Deployed my personal portfolio, displaying my skills, projects, experiences, and accomplishments in the tech domain 17th Mar-Running

- The website is fully optimized for any screen size and is deployed using a host name with .tech in it, udaysutradhar.tech

SKILLS

- **Languages**: C, C++, Python, HTML5, CSS3, JavaScript
- **Frameworks, Libraries and Tools**: Django, NumPy, git, GitHub, Arduino, Figma, SolidWorks, Fusion360, ReactJS, Express & NodeJS

COURSEWORK INFORMATION

UNIVERSITY COURSES

- **CS10003** - PROGRAMMING AND DATA STRUCTURES
- **MA11003** - ADVANCED CALCULUS
- **MA20205** - PROBABILITY AND STATISTICS

- **CS19003** - PROGRAMMING AND DATA STRUCTURES LABORATORY
- **MA11004** - LINEAR ALGEBRA, NUMERICAL AND COMPLEX ANALYSIS
- **MA20202** - TRANSFORM CALCULUS

NON UNIVERSITY COURSES

- MACHINE LEARNING SPECIALIZATION (Andrew Ng)
- Supervised Machine Learning, Advanced Learning Algorithm, Unsupervised Learnings
- META BACK-END DEVELOPER PROFESSIONAL CERTIFICATE

ACHIEVEMENTS AND AWARDS

- **Academic Excellence Award – WBJEE'22**
 - Received the Academic Excellence Award by Chief Minister for achieving the rank in the WBJEE examinations-2022
- **Qualified JEE Main and JEE Advanced**
 - Successfully cleared both JEE Main and JEE Advanced, demonstrating proficiency in competitive examinations

POSITION OF RESPONSIBILITY

- **HEAD OF WEB DEVELOPMENT | CLUMOSS**

[Aug 2023-Dec 2023]

EXTRA CURRICULAR ACTIVITIES

- **NCA (NATIONAL CULTURAL APPRECIATION) SINGER, IIT KGP**

[2022-2024]