Aditya Apurba

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Education

Indian Institute of Technology, Dhanbad   Expected May 2026
Integrated Master of Technology in Mathematics and Computing (GPA: 8.47 / 10.00)   *Dhanbad, Jharkhand*
- **Coursework:** Data Structures and Algorithms (C++), Operating Systems, Object Oriented Programming (C++), Machine Learning (Python), COA, Linear Algebra, Data Mining, Cryptography, DBMS (MariaDB)

Projects

CasaByte - RealEstate App | Github - Link | *React.js, Node.Js, Express.Js, MongoDB, Firebase, Bootstrap*
- CasaByte stands as a fully operational real estate marketplace, streamlining the processes of property buying, selling, and renting.
- The platform boasts an array of functionalities, such as **Map Integration**, Like and Unlike features, connecting with property agents, and creating user profiles.
- Deployed a robust backend system utilizing **Express, Node.js, and JWT** for seamless management of user authentication, listing administration, Password Reset, and other essential operations.
- Incorporated image upload capabilities using **Firebase** for property listings, enabling users to present their properties with high-quality visuals.

PinWit - Map. Pin. Review. Share. | Github | *React.js, Node.Js, Express.Js, MongoDB*
- Developed a real-time travel map application using the **MERN** stack (MongoDB, Express, React, Node) with secure user authentication and personalized login/registration features.
- Enabled users to pinpoint locations, leave reviews, and provide ratings, fostering an interactive, community-driven platform for sharing travel experiences.
- Enhanced user engagement by facilitating seamless communication and displaying reviews and ratings for specific locations, improving overall satisfaction.

CodeMetrics - A Competitve Programming Dashboard | Github - Link | *React.js, API, Chart.Js*
- Developed a **data visualization** dashboard for analyzing Codeforces profiles, enabling users to gain insights and improve their performance in competitive programming.
- Integrated dynamic graph and pie chart visualizations to comprehensively analyze a user's performance and progress on Codeforces.

Technical Skills

Languages : C, C++, Python, JavaScript, TypeScript, SQL
Technologies : React.Js, Node.Js, Express.Js, Next.Js, JQuery, Scikit-learn, PyTorch, TailwindCSS, EJS, Bootstrap, CUDA
Databases : MongoDB, Mongoose, MySQL, Firebase, Prisma
Concepts : Operating System, Graphical Processing Unit, Machine Learning, Neural Networks, API, Database Management

Achievements

- Attained rating of **1519(specialist)** on Codeforces.
- Rating of **1817 (4*) [Top 2%]** securing **Global Rank under 4500** at Codechef.
- Attainded Rank of 252 in Starters 119 Division 2 and 1024 in Think-cell Round-1 with over 20000+ participants.
- Supervised Machine Learning: Regression and Classification By Andrew Ng- Certificate
- Advanced Learning Algorithms By Andrew Ng- Certificate
- Complete Web Development Bootcamp By Angela Yu- Certificate

Social Engagements

Volunteer: at KARTAVYA - NGO run by students of IIT Dhanbad to educate underprivileged childrens.
Sports-Engagements: Badminton, chess , Football ,table-tennis.