



Tanmay Patra

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About Me

I am a 3rd-year Computer Science student driven by curiosity and a passion for innovation. I love exploring ideas, solving challenges, and developing meaningful solutions. With a keen interest in the evolving landscape of technology, I strive to bridge the gap between concepts and the impact of the real world through creativity and problem solving.

Internship

- **Machine Learning Intern** – CSIR (Council of Scientific and Industrial Research) Location :- Bangalore
 - Assisted in developing and optimizing ML models for data analysis and pattern recognition.
 - Worked on data preprocessing, feature engineering, and model evaluation to enhance accuracy and efficiency.
 - Achieved **85% improvement** in model accuracy and reduced processing time by **15%**, contributing to a more effective system.
 - Github - [github](#) - [repo](#)

Education

KIIT University

B.Tech CSE (2022 - 2026) - CGPA: 8.28

DAV Public School

Class 10 CBSE (2020 - 2021) - Percentage: 93.4%

Class 12 CBSE (2022 - 2023) - Percentage: 88.4%

Projects

Rainfall Prediction model

github.com/FrontEnd

- **ML-Based Forecasting:** Uses ML models like Random Forest , XG Boost for rainfall prediction.
- **Optimized Model:** Includes data pre-processing, feature selection, and evaluation.
- **Impact & Future Scope:** For forecasting benefiting agriculture and adding neural networks for better results in the future.

MERN-Based Task Manager and To-Do App

github.com/Full-Stack

- Built a full-stack task manager using MongoDB, Express, React, and Node.js.
- Implemented CRUD operations for task creation, updates, and deletions.
- Designed an intuitive UI with authentication and due-date reminders.

Technologies

Languages: C, Java, Python, JavaScript, tailwind CSS, HTML, CSS

Tools & Platforms: Git, VS Code, Docker, Kubernetes, JIRA, AWS

Libraries & Frameworks: React.js, Next.js, Node.js, Express.js, Flask

Databases & DevOps: SQL (MySQL), MongoDB, RESTful APIs, Microservices Architecture

Course Subjects: Data Structures Algorithms, Operating Systems, DBMS, Computer Networks, Machine Learning, System Design

Hackathons and Certifications

Hackathons:

1. AI Soc Hackathon – LLM Model

Certifications:

1. [AWS](#) – AICTE
2. [C](#) [Java](#) [Python](#) – Udemy
3. [Problem Solving](#) – HackerRank
4. [Web Development](#) – Tech Bairn