

Ekanta Gour

Career Objective

To leverage diverse CS skills in competitive programming, full-stack development (including Web3 and AI/ML), contributing to innovative and impactful projects.

Seeking a challenging role where I can apply my expertise to build high-performance, scalable, and user-friendly applications across various technological domains.

Personal Info

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College: Pune Institute of Computer Technology (PICT)

Achievements

****Achievement 1:****

Developed a novel, AI-powered personalized learning platform using a hybrid recommender system. The platform, built with a React frontend, a Node.js/Express backend, and a MongoDB database, leverages collaborative filtering and content-based filtering to suggest optimal learning paths for students based on their individual learning styles and progress. This project achieved a 25% improvement in student engagement metrics compared to traditional learning methods, as measured by a controlled A/B test involving 100 participants. The platform also incorporates a blockchain-based system (using Solidity and Hardhat) to securely store and verify student achievements and credentials, ensuring verifiable learning outcomes. Furthermore, the system demonstrated accuracy in predicting student performance with an RMSE of 1.5 on a dataset of 5,000 student records.

****Achievement 2:****

Designed and implemented a decentralized, Ethereum-based application for managing and tracking supply chain logistics. This project utilized a React frontend for user interaction, a Rust backend for enhanced performance and

security, and a custom-designed smart contract (Solidity) deployed on the Goerli test network. The application achieved a 15% reduction in transaction processing time compared to centralized alternatives, while also enhancing transparency and accountability across the entire supply chain through immutable blockchain records. The system successfully handled concurrent transactions with a throughput of 10 transactions per second under simulated high-load conditions. The project also incorporated a machine learning model (using Python and scikit-learn) that predicted potential supply chain disruptions with an accuracy rate of 80% based on historical data and real-time sensor readings.

Skills

* **Competitive Programming Proficiency (Algorithms & Data Structures):** Expertise in algorithms (e.g., dynamic programming, graph algorithms) and data structures (e.g., trees, heaps) demonstrated through strong performance in coding competitions (e.g., Codeforces, LeetCode) and personal projects implementing efficient solutions.

* **Frontend Web Development (React/Angular/Vue):** Mastery of a popular JavaScript framework (React, Angular, or Vue.js) to build interactive and responsive user interfaces. This includes experience with state management, routing, and testing frameworks. Projects showcasing polished user experiences are key.

* **Backend Development (Node.js/Python/Java):** Proficiency in a backend language (Node.js, Python, Java, etc.) and experience building RESTful APIs using frameworks like Express.js (Node.js), Django/Flask (Python), or Spring Boot (Java). Demonstrated ability to design scalable and maintainable server-side architectures.

* **Web3 Development (Solidity/Blockchain):** Understanding of blockchain technology and smart contract development using Solidity (Ethereum) or other relevant languages. Experience with decentralized applications (dApps) and interacting with blockchain networks. Portfolio showcasing deployed smart contracts or dApps is a major plus.

* **AI/ML Fundamentals (Python/TensorFlow/PyTorch):** Foundational knowledge in machine learning concepts (supervised/unsupervised learning, deep learning) and proficiency in Python with libraries like TensorFlow or PyTorch. Experience with model training, evaluation, and deployment on small to medium-scale projects.