Lila Som

Skills

* **Competitive Programming Proficiency:** Expertise in algorithms and data structures, demonstrated through strong performance on platforms like Codeforces, LeetCode, or HackerRank. This includes fluency in at least one language like Python, C++, or Java and a deep understanding of time and space complexity.

* **Frontend Web Development Mastery:** Proficient in HTML, CSS, and JavaScript, with experience using modern frameworks like React, Angular, or Vue.js. This includes a strong understanding of responsive design, user experience (UX), and testing methodologies. A portfolio showcasing impressive frontend projects is crucial.

* **Backend Development Expertise:** Experience with server-side technologies like Node.js, Python (with frameworks like Django or Flask), Java (with Spring Boot), or Go. Proficiency in database management (SQL and NoSQL) and API design (RESTful APIs) is essential. Deployment experience (e.g., AWS, Google Cloud, Heroku) is highly valued.

* **Web3 Development Foundations:** Understanding of blockchain technology, smart contracts (Solidity), and decentralized applications (dApps). Experience with Ethereum or other blockchain platforms is a plus. Familiarity with IPFS or similar decentralized storage systems is beneficial.

* **AI/ML Model Building and Deployment:** Proficiency in Python libraries like TensorFlow, PyTorch, or scikit-learn. Experience with building, training, and deploying machine learning models, including knowledge of different model architectures (e.g., neural networks, decision trees) and evaluation metrics. Experience with cloud-based AI/ML platforms (e.g., AWS SageMaker, Google Cloud AI Platform) is a significant asset.

Personal Info

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Career Objective

To leverage cutting-edge skills in competitive programming, full-stack development (including Web3 and AI/ML), and contribute to innovative projects.

Seeking a challenging role where I can rapidly learn and apply my expertise to create impactful solutions.

Achievements

Achievement 1:

Developed a novel, scalable, and highly efficient recommendation system for an e-commerce platform using a hybrid approach combining collaborative filtering with a deep learning model (specifically, a Graph Convolutional Network). This system achieved a 25% improvement in click-through rate and a 15% increase in conversion rate compared to the platform's existing recommendation engine, as demonstrated through rigorous A/B testing. The project also incorporated a robust frontend interface showcasing personalized recommendations and allowing users to provide feedback, contributing to an enhanced user experience. The backend was designed for microservices architecture, showcasing efficient data handling and scalability for future growth. Furthermore, the system integrated with a blockchain-based reward system (using a private Ethereum network) to incentivize user participation and provide transparent reward distribution.

Achievement 2:

Designed and implemented a real-time, AI-powered chatbot for mental health support using a combination of natural language processing (NLP) techniques,

including BERT for sentiment analysis and intent recognition, and a recurrent neural network (RNN) for generating empathetic responses. The chatbot was deployed on a secure, serverless backend architecture (AWS Lambda) allowing for scalable and cost-effective operation. The frontend incorporated advanced features such as voice input and output for accessibility and emotion detection from webcam input to improve the quality of interaction and response tailoring. The project participated in a national AI competition, achieving a top 5 finish for its accuracy in identifying emotional distress and providing appropriate responses based on pre-defined therapeutic guidelines. The chatbot also included a feature to anonymously log user interaction data for anonymized research purposes, strictly following ethical guidelines and user privacy policies.