Project Proposal Submission (Recommender Systems)

1. **Team ID**: BCRS

2. **Team Size**: 1

3. **Roll Number(s) and Name(s):** SE22UARI019, Anunay Korupolu

4. **Base Paper(s) –**
    a. Blockchain-based Recommender Systems: Applications, Challenges and Future Opportunities
        i. Authors: Yassine Himeur, Aya Sayed, et al.
        ii. Place of publication: Computer Science Review
        iii. Year: 2022
    b. An Efficient Rating System Using Blockchain for Recommender Systems
        i. Authors: Saad Choukry, Yousef Iraqi, Loubna Mekouar et al.
        ii. Place of publication: IEEE Access
        iii. Year: 2023
    c. Movie recommendation and classification system using block chain
        i. Authors: Tamara Abdulmunim, Xiahui Tao et al.
        ii. Place of publication: Web Intelligence
        iii. Year: 2024
    d. Blockchain-based Federated Recommendation with Incentive Mechanism
        i. Authors: Jianhai Chen, Yanlin Wu, Dazhong Rong et al.
        ii. Place of publication: Communications in Computer and Information Science
        iii. Year: 2024
    e. Web3Recommend: Decentralised recommendations with trust and relevance
        i. Authors: Rohan Madhwal, Johan Pouwelse
        ii. Place of publication: arXiv
        iii. Year: 2023

5. **Major area** Blockchain based recommendation systems

6. **Proposal** – My project aims to compare multiple blockchain-based recommendation systems to evaluate their effectiveness, scalability, and privacy-preserving capabilities. I will analyze how these systems integrate decentralized storage, smart contracts, and token-based incentives to enhance recommendation quality while maintaining user privacy. By benchmarking key metrics such as accuracy, transparency, computational efficiency, and resistance to manipulation, I will identify the strengths and weaknesses of different approaches. This project will provide insights to the potential of blockchain technology in recommendation systems and highlight the trade-offs between decentralization and performance.

Our Suggestion: