

Abhisake Sinha

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Research Interest

- Blockchain technology and Distributed Ledger Systems.
- Hyperledger Fabric and Enterprise Blockchain solutions.
- Smart contracts and chaincode development.
- Secure and transparent data sharing in blockchain networks.
- Consensus mechanisms and performance optimization in Permissioned Blockchains.
- Privacy and security in Blockchain-Based Systems.

Education

Tripura University, Tripura, India, M.Tech in Computer Science and Engineering June 2023 – May 2025

- **Thesis:** Blockchain based Plant Record storage System using Hyperledger Fabric
- **Advisor:** Dr. Abhishek Majumder, Associate Professor, Dept. of CSE, TU, Tripura, India

ICFAI University, Tripura, India, B.E in Computer Science and Engineering June 2020 – may 2023

- **Project:** Location Tracking with Phone Number using HTML, CSS, JavaScript, React and python
- **Advisor:** Dr. Arunangshu Pal, Assistant Professor, Dept. of CSE, ICFAI University, Tripura, India

Gomati District Polytechnic, Udaipur, Tripura, India, Diploma in Computer Science and Engineering June 2015 – May 2020

Events and Workshop Attended

- Completed training in the field of Software Development Engineering with Web App Development at IT Bhavan(Agartala).
- Participated in 2nd IEEE CIS Summer School Contemporary Advancement in Multi-Objective Optimization (CAMOO).
- Three-Days Training Cum Workshop on Tripura's Artisan's Handicraft Empowerment Using Ensemble Technologies.
- One-Day Training Cum Workshop on Blockchain and Machine Learning-Based Digital Marketing Platform..
- Completed Vocational Training for two weeks in OCB, NGN, NIB, PP TRANS, FTTH, IT, MOBILE in BSNL Tripura.

Technical Skills

- **Programming Language:** C, C++, Python
- **Blockchain:** Hyperledger Fabric, Ethereum
- **Web Development:** HTML, CSS, JavaScript, React

Projects

Blockchain Based Secure Plant Record Storing System using Hyperledger Fabric

- Developed a Blockchain-Based System using Hyperledger Fabric 2.5 for secure and transparent plant record storage and management.
- Designed to enhance data integrity and accessibility among stakeholders, including ForestGuard, Forester, and ForestRangeOfficer.
- Configured MSP (Membership Service Provider), Orderer, and Peer nodes from scratch without using the test network.

- Developed chaincode (smart contracts) in Go/JavaScript to enable secure and auditable plant data transactions.
- Utilized Docker and Docker-Compose for network orchestration and Hyperledger CA for identity management.

Technology Used

- Hyperledger Fabric 2.5, Docker, Golang/JavaScript, Fabric CA, Fabric SDK, Cryptogen, Configtxgen.
- Ubuntu 20.04/22.04 LTS (Linux).

Personal Data

Date of Birth: 22 June 1999

Gender: Male

Nationality: Indian

References

Dr. Abhishek Majumder

Associate Professor, CSE Dept.

Tripura University, Suryamaninagar,

Tripura West, -799022