

Ishita Srivastava

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EDUCATION

- **Rajiv Gandhi Institute of Petroleum Technology** Jais, UP
(An Institution of National Importance along the lines of IITs)
Bachelor of Technology in Computer Science and Engineering; CPI: 8.91* Dec 2020 - Jun 2024
- **Carmel School** Gorakhpur, Uttar Pradesh
Matriculation, ICSE, 2018: 95.3% & Intermediate, ISC, 2020: 93.4%

COMPLETED PROJECTS

- **Copyright Infringement detector** | Won The Smart India Hackathon 2022 — [GitHub](#) Aug 2022
 - A blockchain-based record of the platforms with publishing rights of media. Media is stored using **IPFS**.
 - Designed a Web Crawler that analyses the browser results for downloading movies and extracts all the redirect links using **RegEX** and **BeautifulSoup**. **OCR** has been used to detect the download options on the website.
 - **Technology Stack:** Blockchain, Selenium, Solidity, Ethereum, Nodejs, Reactjs, PUPPETEER, PyTesseract for OCR, HTML Parser using BeautifulSoup.
- **Querying system for NFTs** | Smart Contracts for transaction, GraphQL for indexing — [GitHub](#) Nov 2022
 - Deployed a **Smart Contract** using **Hardhat framework** that performs the transaction and returns its address.
 - Querying through the address by the use of **The Graph API**.
 - **Technology Stack:** Solidity, Web3.js, Nodejs, Polygon, The Graph, Openzeppelin, ERC721.
- **Two-player game** | Socket Programming, Client-Server Communication — [GitHub](#) Dec 2022
 - Developed a Tic-Tac-Toe game using the **client-server** model wherein the moves of clients in the Game-room are communicated using **sockets** enabling it to work on different devices connected to the same network.
 - **Technology Stack:** Vuejs, Socket.io, Nodejs.

ONGOING PROJECTS

- **Blockchain in Healthcare System** | Blockchain, Cryptography — [Accepted in IEEE](#) Sep 2022
 - Secured storage and dynamically permissioned access of the medical records using smart card and **Proof-of-Authority** on Permissioned-Blockchain.
 - Using **Lattice-based Cryptography** to make the system secure against quantum attacks.
 - **Technology Stack:** SHA256 hashing algorithm, Public-Key Cryptography, P2P Network, Smart Card, Proof-of-Authority consensus algorithm (Hyperledger Fabric).
- **Cryptographic Messaging Application on the IPFS** | FileCoin Virtual Machine Jan 2023
 - Led a team of 5 developers to build a secure messaging decentralized application with **IAM** and Time control.
 - Upgraded the security using Lattice Cryptography to make the decentralized application resistant to quantum attacks.
 - **Technology Stack:** Filecoin Virtual Machine, Nodejs, IPFS, Lattice-crypto.
- **A Smart Water Management System using IoT & Blockchain with Cartesi** Jan 2023
 - **IoT devices** are used for real-time monitoring of the quantity and quality of water in the distribution infrastructure.
 - Data from IoT devices is stored on **IPFS** for analysis of water usage, wastage, and billing.
 - Blockchain Technology using **Cartesi Machine and rollups** aid in complex computation over the **Big Data**.
 - **Technology Stack:** Cartesi Rollups and Machine, Solidity, IPFS, Filecoin, WEB3Storage, IoT sensors, Raspberry Pi.

SKILLS

- **Areas of Interest:** Data Structures and Algorithms, Deep Learning, Blockchain, System Design, SDLC, Linux, WEB3, Cryptography, Technical Writing, Public Speaking, Relational Databases, Operating Systems, Software Engineering.
- **Languages:** C/C++, Java, MySQL, Python, Solidity, Bash, JavaScript, TypeScript.
- **Tools/Libraries:** Nodejs, Selenium, Vercel, Reactjs, OpenCV, TensorFlow.

PUBLISHED WORK

- **Blockchain-based Secure Storage and Management of Electronic Health Record using Smart Card** | *IEEE Conference* | *RAIT 2023 conference to be conducted at IIT-Dhanbad* Dec 2022

ACHIEVEMENTS

- Finalist at ETHIndia Hackathon 2022
- Winner of the Smart India Hackathon-2022 for Problem Statement NS1228
- Shortlisted and Granted Scholarship in ETHDenver Hackathon 2023
- Solved more than 100 DSA questions

EXTRA-CURRICULAR AND VOLUNTEER WORK

- **Treasurer:** OWASP Student Chapter, RGIPT
- **Editorial Co-head:** RGIPT ACM Student Chapter, RGIPT
- **Overall Coordinator:** Leading a team of more than 150 Volunteers at Gyanarpan, Project Amethi
- **Tutorship:** Lectured a class of freshers of Bachelor of Technology.
- **Teaching Volunteer:** Gyanarpan is initiative to educate underprivileged children
- **Organizing Committee:** Organized the first three-day International Inter-Departmental Technical Fest themed COSMOSx organized by RGIPT ACM Student Chapter.