



## Shivansh Gupta

B.Tech

Biochemical Engineering & Biotechnology  
Indian Institute of Technology Delhi

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### EDUCATION

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- Indian Institute of Technology Delhi**

2022 - Present

B.Tech in Biochemical Engineering & Biotechnology

CGPA: 7.65

### SCHOLASTIC ACHIEVEMENTS

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- Rajya Puruskar For Scouts And Guides:** Recived Rajyapal Puraskar from **Governer** of Uttar Pradesh.
- Joint Entrance Exam:** Secured Top 1% AIR in **JEE Advanced** among over 1.2 million candidates
- Won First Prize** in the web Development Hackathon hosted by **Telangana Government** in 2024.

### PROJECTS

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- Image Authentication Model in Rust**

- Tools & Technologies used: Rust, IPFS
- Developed an "Image Authentication Model in Rust," leveraging Merkle trees, IPFS, and blockchain to ensure image integrity. The project involved processing images to extract MSBs, encrypting blocks, and uploading them to IPFS. The unique hashes generated were used to build a Merkle tree, with the root stored in the blockchain for tamper-proof verification.

- Blockchain Implementation in Rust**

- Tools & Technologies used: Rust
- In this project, I have developed a blockchain system using Rust. The implementation includes essential components of a blockchain, such as the creation and validation of blocks, transaction handling in blockchain network.

- Decentralized Crowdfunding Platform**

- Tools & Technologies used: Solidity, Ethereum, chainlink , Foundry
- Developed a decentralized crowdfunding platform on Ethereum using Solidity. The platform enables users to fund the contract with ETH, which is then converted to USD using Chainlink price feeds to ensure a minimum funding amount. Implemented secure fund withdrawal mechanisms for the contract owner and optimized gas usage.

- Decentralized Raffle System**

- Tools & Technologies used: Solidity, Ethereum, Chainlink VRF , Foundry
- Developed a decentralized raffle system on Ethereum using Solidity. The system allows users to participate in a raffle by sending ETH, and a winner is randomly selected using Chainlink VRF. Also developed comprehensive test cases to ensure the functionality and reliability of the raffle contract.

- NFT Collection Implementation**

- Tools & Technologies used: Solidity, Ethereum, OpenZeppelin Contracts , Foundry
- Developed a collection of NFTs on Ethereum using Solidity. The project includes a basic NFT contract and a dynamic NFT contract where the mood of the NFT can be flipped between HAPPY and SAD. Utilized OpenZeppelin contracts for ERC721 implementation and ensured efficient and secure minting and metadata management. Developed comprehensive test cases to ensure the functionality and reliability of the raffle contract.

- Designed a Website to make learning more fun and interactive**

- Technologies Used: React.js , GSAP , FramerMotion , spline , Supabase
- Created a complete website as a part of hackathon organized by Telangana govt, that will be implemented in Schools of Telangana on trial basis to understand the study pattern of students upto class 10.

### CAMPUS INVOLVEMENT AND LEADERSHIP

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- Coordinator | Blockchain Society, IIT Delhi**

(April'24-Present)

- \* I lead and manage the activities and initiatives of the society, fostering a collaborative environment for blockchain enthusiasts. My responsibilities include organizing workshops, seminars, and hackathons to promote blockchain education and innovation.

### TECHNICAL SKILLS AND INTERESTS

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**Programming & Scripting Languages:** Solidity, Rust , Foundry, Circom , Zero Knowledge Proofs , C++, Javascript, Typescript, Python, HTML, CSS, Node.js, Express.js, MongoDB Query Language, JSX