Jiyansh Kushwah

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EDUCATION

- **Institute of Engineering and Management(IEM), Kolkata**   Kolkata, West Bengal, IN
  B.Tech in Computer Science; YGPA: 9.03   *August. 2024 – Present*

SUMMARY

Computer Science and Engineering undergraduate with strong proficiency in Data Structures & Algorithms, object-oriented programming, and full-stack web development. Experienced in building efficient, scalable applications and solving complex problems with clean, maintainable code. "Hands-on exposure to AI/ML and Quantum Computing (Qiskit) and certified training from IIT Kanpur.

PROJECTS

- **LoanSimplify (AI-Powered Digital Loan Processing System) (September 2024 - October 2024)**:
  - Designed an **AI-powered loan processing system** to reduce manual paperwork and approval delays
  - Implemented **digital document verification** using secure authentication mechanisms
  - Automated loan application workflows, reducing human intervention and processing time
  - Improved data accuracy, security, and user experience in traditional loan systems
  - Built and tested the solution as a **hackathon project** with real-world financial use cases

- **QChain (Quantum-Resistant Blockchain) (Ongoing)**:
  - Designed and implemented a **quantum-resistant blockchain architecture** using post-quantum cryptographic algorithms
  - Integrated **PQC-based key exchange and digital signatures** to replace traditional ECC/RSA methods
  - Developed smart contracts and blockchain modules using **Hardhat, Solidity, and Node.js**
  - Focused on improving **long-term data integrity and transaction security** against quantum computing threats
  - Tested and validated cryptographic operations for performance and security trade-offs

ACHIEVEMENTS AND RESPONSIBILITIES

- Solved **120+ Data Structures & Algorithms problems** on LeetCode with consistent practice
- Earned **Gold Badge in Java on HackerRank**, demonstrating strong command over core Java concepts
- Awarded **NPTEL Discipline Star** for academic consistency and commitment to learning
- Actively engaged in **competitive programming** and algorithmic problem-solving
- Continuously upskilling through self-paced learning alongside academics

SKILLS

- **Languages**: Java, JavaScript, Python, C++
- **Core CS :** Data Structures & Algorithms, OOP, Problem Solving
- **Web :** HTML, CSS, JavaScript, Node.js
- **Databases :** SQL, MySQL
- **Emerging Tech :** Quantum Computing (Qiskit), AI/ML (Foundational)