

Krrish Dubey

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About Me

I'm a blockchain and Web3 developer exploring the intersection of decentralized systems, quantitative finance, and AI. My work focuses on translating abstract mathematical theories such as game theory and stochastic modeling into practical implementations for DeFi, risk prediction, and human behavior modeling. I'm currently building an AI-VR-Blockchain integrated recruitment system to enable transparent and bias-free hiring, while also experimenting with ML/DL-based market analysis and financial modeling. Beyond research, I mentor students in advanced mathematics through my channel Sociomath.

Education

JIS College of Engineering, Kalyani

Sept 2024 – (ongoing)

B.Tech in Computer Science and Technology

- CGPA: 8.72
- **Coursework:** Problem Solving in C and C++, Data Structures, Design and Analysis of Algorithms, Engineering and Discrete Mathematics

East Point School, Ichhapur (CBSE)

June 2021 – June 2023

Higher Secondary

- Marks: 77%
- **Coursework:** High School Mathematics, Physics and Chemistry

Morning Bells Academy High School (WBBSE)

Apr 2009 – May 2021

Matriculation

- Marks: 90.8%
- **Coursework:** Standard Matriculation Syllabus

Projects

EcoQuant — A Blockchain-Powered Carbon Finance Ecosystem

eco-quant.vercel.app 

- Developed a decentralized financial ecosystem enabling transparent and traceable **carbon credit verification, tokenization, and investment** on the **Celo Sepolia Testnet**.
- Designed and deployed the **EcoQuant Token (EQT)** — an ERC-20 asset representing verified carbon offsets; on-chain contract: [0xe00b540dfb16dbe12b80ef89f3172ffe3305ac7b](https://etherscan.io/address/0xe00b540dfb16dbe12b80ef89f3172ffe3305ac7b) .
- Engineered dual dashboards: contributor portal for **geo-mapped carbon project submissions** and investor interface for **EQT trading and liquidity pooling** via **Ubeswap V3**.
- Integrated **IPFS based proof storage** and **ML driven prediction models** for automated project monitoring, reporting and verification, valuation and token minting.
- Established a fully **transparent on-chain verification layer**, enabling real-time tracking of carbon project authenticity, transactions, liquidity movements and trading.

Skills: Solidity, Web3.js, React.js, IPFS, Smart Contract Architecture, Machine Learning, Blockchain Development (Celo, Ethereum)

Repository: github.com/theskepticgeek/EcoQuant 

Implementation of Strategic Game Theory in Blockchain Based DeFi

github.com 

- Research and prototyping of game-theoretic models to enhance trust, optimize transactions, and minimize risks in decentralized finance systems.
- Building mathematical models to evaluate transaction behaviors and incentives in blockchain networks.

Skills: Blockchain, Solidity, Python, C++, Game Theory, Probability

Repository: github.com/theskepticgeek/SecureDeFiLendingOptimized 

Integrating AI and VR for Mass Recruitment

holorecruit.in 

- Developing a VR-powered AI interview simulation platform to reduce hiring bias and automate talent acquisition at scale.
- Designing immersive modules for skill evaluation and behavior analysis using real-time interaction.

Skills: Python, AI, ML, VR, R

Publications & Research

Strategic Game Theory in Blockchain-based Decentralized Finance

July 2025

Krrish Dubey, Priyanka Mukherjee, Dr. Sayan Chakraborty

Submitted to: *Applied Computing for Software and Smart Systems (ACSS-2025, July 4–5)*

Research on the implementation of strategic game theory models such as **Nash Equilibrium**, **Prisoner's Dilemma**, and **Iterated Games** — integrating dynamic reputation systems, collateral-backed loans, and trust-based incentives in **Blockchain-based Decentralized Finance (DeFi)** to enhance trust and transparency in peer-to-peer transactions.

The system incorporates a **dynamic reputation score** (0–10) derived from borrower and lender transaction histories, influencing **interest rates** and enforcing **collateral requirements**. The research analyzes borrower–lender interactions to predict default probabilities and demonstrates that applying **Nash Equilibrium** conditions reduces default rates through repeated on-chain loan iterations.

The smart contract was developed in **Solidity** and deployed on the **Ethereum Sepolia Testnet**.

Repository: github.com/theskeptickgeek/SecureDeFiLendingOptimized 

Experience

Managing Director

March 2025 – (ongoing)

HoloRecruit

- Founding member and technical lead of HoloRecruit, an AI-powered VR-based interview and recruitment simulation system.
- **Skills:** Python, C++, Artificial Intelligence, Machine Learning, Virtual Reality

Associate Editor

Nov 2024 – (ongoing)

From Code to Cognition, Dept. of CST and CSE (AI/ML) Newsletter

- Designed and edited bi-monthly departmental newsletter featuring latest trends and research in computer science.
- **Skills:** Canva, Design, Report Writing

Certifications

Innovwave, Cognizance

Mar, 2025

Conducted by: IIT Roorkee

- Zonal winner and finalist

Build on Celo Hackathon

Oct, 2025

Conducted by: Rise In and Celo Blockchain

- Shortlisted in the Top 10 and forwarded to the Celo core team for further evaluation.

Generative AI Virtual Internship (Cohort 11)

Jan - May 2025

Conducted by: EduSkills Foundation in association with Google

- Practical experience in AI/ML workflows using Google Cloud.
- **Skills:** Cloud Computing, Gen AI, ML, Data Science, Gemini, Python

Workshop on AI/ML

March, 2025

Conducted by: Microsoft

- Attended technical sessions on next-gen AI innovations.
- **Skills:** Agentic AI, Artificial Intelligence, Machine Learning

Honors and Awards

Innowave, Cognizance, IIT Roorkee – 1st Rank (State Level) Secured 1st rank at the state level at Cognizance, IITR Innowave.	2025
Indian Statistical Institute (B.Stat/B.Math) – AIR 289 Secured AIR 289 out of 9000+ candidates for admission to ISI.	2024
Institute of Mathematics and Applications (UG) – Rank 51 Ranked 51 out of 500+ candidates for admission to IOMA, Bhubaneswar.	2024
SOF International Mathematics Olympiad (IMO) – 2nd Stage Achieved International Rank 6.	2013
SOF National Cyber Olympiad – 2nd Stage International Rank 315 — State Rank 13.	2013
Winner – Inter-house Science Exhibition Presented “Hydraulic City,” a working model based on Pascal’s Law and hydrostatics.	2019
1st Runner-up – Inter-house Debate and Quiz Competitions Recognized for teamwork, spontaneous thinking, and public speaking.	2019
Winner – Extempore Speech and Elocution (Senior) Awarded for four consecutive years for excellence in public speaking and poetry.	2015–2019
ALOHA English – State Level Winner Ranked 1st among 1000+ participants in grammar and aptitude-based competition.	2015

References

Dr. Sayan Chakraborty

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