

Ankita Singh

✉/ankitasingh15.102@gmail.com | **in**/ankita-singh | Annkkitaaa | `</>/ankitasingh` | aannkkiittaa | +91-7208609380

EDUCATION

Indian Institute of Technology (ISM)

Master of Science in Mathematics and Computing
CGPA: 3.3/4.0 (4-point scale)

Dhanbad, Jharkhand

Aug. 2022 - May 2024

Patna Women's College

Bachelor of Science in Mathematics (Hons.)
CGPA: 3.9/4.0 (4-point scale)

Patna, Bihar

Apr. 2019 - Apr. 2022

TECHNICAL SKILLS

Languages: Python (PyTorch, NumPy, Pandas, Transformers), C++, Rust, JavaScript, SQL

Blockchain: Smart Contracts, Solidity, Ethereum, Zero-Knowledge Proofs, Cryptographic Primitives, Consensus Mechanisms, DeFi Protocols, Tokenomics, Distributed System, Liquidity Pools, Yield Farming, AMMs

AI & Machine Learning: Supervised/Unsupervised Learning, NLP, Semantic Analysis, Large Language Models, Vector Embeddings, HuggingFace, LangChain, AutoGPT, RAG, Transformers

Data Science: Statistical Analysis, Hypothesis Testing, Feature Engineering, Model Evaluation, Experimental Design, Data Visualization (Tableau, Matplotlib, Plotly), Data Processing

Research & Documentation: Technical Writing, Whitepaper Development, API Documentation, Literature Review

EXPERIENCE

Networth Corp

Nov. 2024 – Present

Data Scientist (Bangalore, Karnataka, India)

- Engineered a Python chunking module that reduced token usage by 35% and improved document retrieval speed by 42% across 500+ markdown documents, saving \$5,000 monthly in API costs.

Infinite Analytics

Apr. 2024 – Oct. 2024

Data Scientist, Internship (Mumbai, Maharashtra, India)

- Analyzed campaign metadata for 30+ clients, developed 8 new KPIs, and optimized targeting strategies, resulting in 21% improved campaign efficiency and 9% cost reduction.

Indian Institute of Technology (ISM)

Jan. 2024 – Mar. 2024

Research Analyst, Internship (Dhanbad, Jharkhand, India)

- Pioneered a Graph Neural Network system analyzing 100+ yoga posture images, delivering 18% higher recognition accuracy and 12% reduced false positives, published in departmental research journal.

PROJECTS

Decentralized AI Legal Document Generator | Blockchain, Ethereum, AI

Feb. 2025 – Present

- Developed a legal document system integrating Claude AI with Ethereum smart contracts, reducing verification time by 70% and implementing Model Context Protocol (MCP) for secure AI-blockchain interaction without frontend dependencies.

DeFi Risk Analysis System | Python, Machine Learning, Blockchain

Dec. 2024 – Jan. 2025

- Created a predictive analytics tool analyzing 50K+ Ethereum transactions to assess DeFi asset risk, achieving 85% model accuracy and automating data pipelines for real-time market prediction.

ML Zero-Knowledge Proof System | Cryptography, Python, ZKP






Nov. 2024 – Dec. 2024

- Engineered a ZKP-based ML verification system using cryptographic commitments and digital signatures, enabling sub-second proof generation and 100% privacy of training data.

ACHIEVEMENTS

- Selected as one of only 50 participants nationwide for the prestigious Mathematics Training and Talent Search (MTTS) Programme in 2021, competing against 2,000+ applicants.
- Secured All India Rank (AIR) 535 out of 50,000+ test-takers in IIT JAM 2022, placing in the top 1% nationally.

RELEVANT COURSEWORK

- Courses:** Data Structures and Algorithms, Database Management System, Data Analytics, Design and Analysis of Algorithms, Data Mining, Probability and Statistics, Inferential Statistics, Distributed System.
- Online Certifications:** Machine Learning Specialization, Coursera ; CS120: Bitcoin for Developers, Saylor Academy ; Credential ID 7391432686AS; Cryptography I, Stanford University ; Decentralized Applications (Dapps), Coursera ; Blockchain Basics, Coursera ; Smart Contracts, Coursera .