

Manas Kumar

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SUMMARY

Computer Science undergraduate with strong interests in Machine Learning, Blockchain, and Web Development. Experienced in building ML models, graph-based systems, and Web3 applications. Passionate about solving real-world problems through scalable, data-driven, and decentralized technologies.

TECHNICAL SKILLS

Programming Languages: JavaScript, Solidity, Python, SQL

Frameworks & Libraries: React.js, Next.js, PyTorch, PyTorch Geometric, LangChain

Developer Tools: Git, GitHub, Hardhat, IPFS

PROJECTS

Fraud Detection using FinBERT and Graph Neural Networks (GNN)

Machine Learning Project

Python, PyTorch Geometric, FinBERT

Designed a multimodal fraud detection pipeline by modeling financial transactions as a graph.

Used GraphSAGE to capture relational patterns missed by traditional ML models.

Integrated FinBERT embeddings with graph-based learning for improved fraud detection.

Modernized AlexNet for Image Classification

Deep Learning Project

Python, PyTorch, CNNs

Reimplemented the AlexNet architecture using modern training techniques.

Improved robustness and performance on benchmark image classification datasets.

ChainForge

Web3 / Blockchain Project

Next.js, Solidity, Hardhat, IPFS, Wagmi

Built a platform that converts any digital asset into an NFT with on-chain ownership.

Stored assets on IPFS and minted NFTs using secure smart contracts.

Implemented wallet-based authentication and seamless Web3 interactions.

EDUCATION

Vellore Institute of Technology, Vellore

2022-2026

B.Tech in Computer Science and Engineering