

# Manas Kumar

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## SUMMARY

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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

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**Programming Languages:** JavaScript, Solidity, Python, SQL

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

**Developer Tools:** Git, GitHub, Hardhat, IPFS

## PROJECTS

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### 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

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### Vellore Institute of Technology, Vellore

2022-2026

*B.Tech in Computer Science and Engineering*