

Kshitij Kumre

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EDUCATION

B.R.A.C.T. Vishwakarma Institute of Technology, Pune	Jun 2022 – Till Date
B. Tech in Computer Engineering	7.97
Hislop College, Chandrapur, 2022	84.6%
Abhyasa English School, Amravati, 2020	84%

TECHNICAL SKILLS

Development: MERN Stack

Programming: Java, JavaScript, Python, C++, Solidity

Blockchain: Ethereum, Hardhat, Metamask, IPFS, Smart Contract

Miscellaneous: Gen-AI, ML, AWS

PROJECTS

CryptPic-aes-steganography (GitHub) May 2025

- CryptPic leverages AES encryption and advanced steganography techniques to embed and extract secure data from images.
- Blockchain integration ensures tamper-proof timestamping and data integrity.

RAG-based File Retrival System (GitHub) April 2024

- An interactive, AI-powered PDF chatbot built using Streamlit, AWS Bedrock LLMs (Titan, LLaMA3), FAISS, and LangChain.
- It performs retrieval-augmented generation (RAG) by extracting and embedding PDF documents, enabling users to ask complex questions and receive detailed, context-aware answers.
- Includes a modern UI, real-time LLM switching, and vector store management.

Web3.0 Based Social Platform (GitHub) November 2024

- Built a decentralized Twitter-like dApp where users create NFT-based profiles, post content via IPFS, and receive ETH tips for their posts.
 - Integrated Solidity smart contracts with a React.js frontend using Ethers.js and deployed on a local Ethereum blockchain with Hardhat.
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- Applied BERT-based NLP models (BERT, FinBERT, ProsusAI FinBERT, HKUST FinBERT) to perform financial sentiment analysis on domain-specific news datasets, optimizing model performance using fine-tuning techniques.
- Implemented advanced training strategies such as gradual unfreezing and slanted triangular learning rates to combat catastrophic forgetting and improve model generalization in sentiment classification tasks.
- Conducted comparative analysis using accuracy and F1-score metrics, where ProsusAI FinBERT demonstrated superior results, showcasing the impact of domain-specific pre-training in financial NLP applications.

COURSEWORK

- Cyber Security
- Data Structure And Algorithms
- Computer Networks
- Operating Systems
- Artificial Intelligence
- Cloud Computing
- Database Management System
- System Design