Nishchal Vyas

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SUMMARY

Proactively pursuing professional development and meaningful impact by leveraging analytical expertise, data strategies, and machine learning concepts learned through projects. Fast adapter to evolving tech stacks, collaborative team member, and focused on building practical ML solutions that transform real-world inputs into actionable insights aligned with business priorities.

WORK EXPERIENCE

National Informatics Centre (NIC) Headquarters   Jan 2025 - Mar 2025
Intern

– Gained hands-on exposure to blockchain fundamentals, including smart contracts, consensus mechanisms, and decentralized applications.

– Explored real-world use cases of blockchain in e-governance and public sector digital infrastructure.

PROJECTS

Food-Quality-Classifier

• Built Flask web app with CNN model (TensorFlow/Keras) achieving 87% accuracy for food freshness classification with real-time webcam capture, batch processing, and SQLAlchemy authentication.

• Integrated analytics dashboard (Chart.js), PDF reports, email functionality, and storage recommendations using OpenCV for image processing.

E-Commerce Recommendation System

• Built content-based, collaborative filtering, and hybrid recommendation algorithms using Python, TF-IDF vectorization, and cosine similarity for 5,000+ products with Flask web interface.

• Developed complete recommendation pipeline with data preprocessing, EDA, rating analysis, user authentication, and shopping cart functionality using Pandas and scikit-learn.

DocChain

• DocChain is a blockchain-based solution for secure academic document management, enabling tamper-proof storage, global verification, and reduced administrative overhead. Utilized Ethereum smart contracts, IPFS, and React to build a scalable, transparent, and decentralized record-keeping system for educational institutions.

SKILLS

Programming: Python, Java, HTML, CSS

ML & Data Analysis: Machine Learning (scikit-learn), NumPy, EDA

Databases & BI: PostgreSQL, MySQL, Apache Superset

Tools & Concepts: Git, Data Visualization, Blockchain Fundamentals

EDUCATION

Year	Description	
2022 - present	B.Tech in CSE at **LNCT University**	(CGPA: 6.70)
2022	Class 12th St. Montfort Sr. Sec. School	(67.8%)
2020	Class 10th St. Montfort Sr. Sec. School	(84.6%)