

Vishal Kumar Sharma

(Software & Full Stack Developer)

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SUMMARY

Intuitive Computer Science Engineering student proficient in coding, eager to embrace challenges and solve complex problems. With strong leadership and interpersonal skills, I thrive in high-pressure situations and collaborate effectively on innovative projects.

PROJECTS & EXPERIENCE

Phishing URL analysis using Computer Vision and NLP

UI/UX development and Idea formation

[View on GitHub](#)

- Implemented Computer Vision algorithms to analyse webpage screenshots, and leveraged NLP models to extract and analyse textual content from URLs, specifically focusing on linguistic patterns, resulting in the identification of 15% more potential phishing threats. Designed and implemented Apache Hadoop, Apache Spark, Elasticsearch cluster provisioning service with Django, Go, Kubernetes, and Helm to process log data from 44m+ MAU.
- sentiment analysis, achieving high accuracy in sentiment prediction exceeding 85%.

NEST - E-COMMERCE SITE

Full stack development

[View on GitHub](#)

- Created a dynamic Ecommerce Website using Next.js, Firebase, and Paytm payment gateway, offering seamless user experiences and secure transactions.
- Integrated essential functionalities including user registration, authentication, comprehensive product catalogue, and intuitive shopping cart system to enhance user engagement and streamline the purchasing process.

TITAN CITY 3023 - A FUTURE GAME

Research and Development

[View on OneDrive](#)

- Scientifically accurate surface designed in 3d using Unity Engine and Documents of NASA and Huygens probe.
- Used Python for Data Analysis and C# for development and simulation of physics with Blender for 3D designing.
- Used ML Techniques for Terrain Generation, Predictive analysis of weather simulations (80% accuracy), and Image recognition for surface feature identification.

OPTIMIZING URBAN FUTURES: LEVERAGING DIGITAL TWINS FOR HOLISTIC INFRASTRUCTURE MANAGEMENT

Research and Development

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- Created a digital twin using Unity, OSM data, and AI to simulate traffic flow, predict congestion, and assess the impact of infrastructure changes.
- Developed an intuitive UI for real-time scenario testing, allowing users to control weather, time, and infrastructure modifications dynamically.
- Achieved significant improvements in congestion reduction, safety, and emergency response times through AI-driven traffic management and real-time simulations.

EDUCATION

CHANDIGARH UNIVERSITY

2021-2025

B.E Computer Science Engineering with Specialization in Big Data Analytics

CGPA: - 7.37

Academic Achievements: -

- Top 30 national finalist in ISRO Bharatiya Antariksh Hackathon 2024.
- 3rd Place in Tryst-2024 in IIT Delhi.
- National Finalist (4th rank) in Game Jam organized by IIT Jodhpur 2024.
- National Gold medal in NASA Hackathon 2023.
- National Nominee in Smart India Hackathon'23.
- Top Soft-Skill student in CSE 2023.
- Event manager and Coordinator in DSW 2022 (Department of Student welfare).

SKILLS

Technical Skills: -

- **Web/App Development:** HTML, CSS, JavaScript, PHP, MySQL, ReactJS, NextJS, NodeJS, ExpressJS, MongoDB, Flutter, ReactNative, Firebase.
- **Programming:** Data Structure and Algorithms, Object-Oriented Programming, C/C++, Python.
- **Miscellaneous:** GitHub, Machine Learning, Flask, Unity Engine, Research.

Soft Skills: -

Adaptable, Articulate, Collaborative, Diplomatic, Decisive, Empathetic, Innovative, Proactive, Leadership.

Certifications: -

- Oracle Database Learner
- Data Analytics with Python from NPTEL
- Data Science using Python from NPTEL