

VIKASH KUMAR

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EDUCATION

VIT Bhopal University

B.Tech in CSE (AI & ML), CGPA: 8.80/10

Bhopal, India

Sept 2023 – Present

EXPERIENCE

Full Stack Developer Intern – PPE Compliance Project

May 2025 – Oct 2025

amasQIS.ai

Remote

- Developed and maintained YOLO-based Computer Vision PPE compliance system for detecting safety violations from 5+ live video feeds in industrial environments
- Fixed 3 critical upload bugs and enhanced user interface components, improving system reliability and performance by 30%
- Integrated automated report generation features for non-compliance cases, reducing manual reporting time by 50%
- Collaborated with 5-member cross-functional team to implement real-time alert mechanisms for immediate safety notifications

PROJECTS

Smart Water Tank Management using Hybrid Deep Learning and Ensemble Models | Python, TensorFlow, XGBoost 2025

- Designed and implemented a two-stage predictive system combining LSTM + Transformer architecture for water demand forecasting with 94.56% accuracy
- Engineered XGBoost-based classification model for optimal refill decision-making achieving 96%+ accuracy in refill timing predictions
- Built real-time monitoring dashboard with interactive visualizations for 15+ tank level tracking and demand pattern analysis

ML for Drug Discovery using ChEMBL | Python, Scikit-learn, RDKit, ChEMBL API

2024

- Pioneered Graph Neural Network (GNN) model for predicting drug-target interactions using ChEMBL bioactivity database achieving 87.9% accuracy
- Extracted 50+ molecular descriptors and fingerprints from ChEMBL compounds using RDKit for drug-target prediction modeling
- Implemented advanced data preprocessing pipeline handling molecular descriptors, SMILES notation, and bioactivity data integration for 10,000+ compounds

Days Left Countdown – Chrome Extension | HTML, CSS, JavaScript, Chrome APIs

2025

- Developed feature-rich Chrome extension with live countdown functionality, 5 dynamic UI themes, and motivational quote integration
- Architected local storage system for user preferences, custom events tracking, and personalized dashboard configurations
- Created responsive design with multiple theme options and smooth animations enhancing user experience for 100+ users

TECHNICAL SKILLS

Languages: C++, Python, Java, JavaScript, SQL

Libraries/Frameworks: Scikit-learn, TensorFlow, XGBoost, RDKit, Flask, React

Developer Tools: Git, GitHub, VS Code, Google Colab, Chrome DevTools, Jupyter Notebook

EXTRA-CURRICULAR

Core Member – Content Team

2024 – Present

EDU4U Club

VIT Bhopal

- Facilitated technical sessions and managed Q&A sessions for 200+ conference attendees
- Organized 2+ workshops and mentoring sessions for junior students on programming and career development
- Led content strategy meetings and collaborated with 5-member design team for educational resource development

CERTIFICATIONS

Networking Basics – Cisco

Cloud Computing – NPTEL

Fundamentals of AI & ML – VITyarthi