

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 live video feeds in industrial environments
- Fixed 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 cross-functional teams 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 2024

- Designed and implemented a two-stage predictive system combining LSTM + Transformer architecture for water demand forecasting with 94.56% accuracy
- Developed 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 tank level tracking and demand pattern analysis

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

2024

- Developed Graph Neural Network (GNN) model for predicting drug-target interactions using ChEMBL bioactivity database achieving 87.9% accuracy
- Extracted 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

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

2024

- Developed feature-rich Chrome extension with live countdown functionality, dynamic UI themes, and motivational quote integration
- Implemented 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

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

Databases: MySQL, PostgreSQL, MongoDB

EXTRA-CURRICULAR

Anchor & Volunteer

2023

IEEE ICSDP Conference 2023

VIT Bhopal

- Facilitated technical sessions and managed Q&A sessions for 200+ conference attendees
- Coordinated with international speakers and ensured smooth event logistics and technical support

Core Member – Content Team

2023 – Present

EDU4U Club

VIT Bhopal

- Created educational content and study materials for peer learning initiatives benefiting 500+ students
- Organized workshops and mentoring sessions for junior students on programming and career development
- Led content strategy meetings and collaborated with design team for educational resource development