Vikash Kumar

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SUMMARY

An AI / ML enthusiast with experience in machine learning, deep learning, and real-world problem solving. Skilled in Python, C++, Scikit-learn, TensorFlow, and modern web technologies, with a strong focus on innovation and collaboration.

TECHNICAL SKILLS

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

Libraries/Tools: Scikit-learn, TensorFlow, Google Colab, GitHub, VS Code

PROJECTS

Smart Water Tank Management using Hybrid Deep Learning and Ensemble Models
Python, TensorFlow, XGBoost
- Built a two-stage system to forecast water demand and optimize refill decisions
- Used LSTM + Transformer for forecasting (94.56% accuracy), and XGBoost for refill classification (96%+)

ML for Drug Discovery using ChEMBL
Python, Scikit-learn, RDKit
- Built a model to predict drug-target interactions using ChEMBL data and GNN (87.9% accuracy)
- Processed molecular data using RDKit and ChEMBL API

Days Left Countdown – Chrome Extension
HTML, CSS, JavaScript
- Built a Chrome extension with live countdown, motivational quote, and dynamic UI

EXPERIENCE

Full Stack Developer Intern – PPE Compliance Project   May 2025 – Oct 2025
amasQIS.ai   *Remote*
- Worked on a YOLO-based PPE compliance system detecting violations from video feeds
- Fixed upload bugs, improved UI, and integrated report generation for non-compliance cases

EDUCATION

VIT Bhopal University   Bhopal, India
B.Tech in CSE (AI & ML), CGPA: 8.80/10   *Sept 2023 – Present*

CERTIFICATIONS

Networking Basics – Cisco, Cloud Computing – NPTEL, Fundamentals of AI & ML – VITyarthi

EXTRA-CURRICULAR

- Anchor & Volunteer – IEEE ICSDP Conference 2023
- Core Member – EDU4U Club (Content Team)

HOBBIES

Reading, Chess, Badminton, Psychology & Sociology