HITESH KUMAR PATEL

Bhopal, Madhya Pradesh — hiteshpatel0674@gmail.com — +91-7999054878
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EDUCATION

VIT Bhopal University Bhopal, Madhya Pradesh
Bachelor of Technology in Computer Science and Engineering — CGPA: 9.18/10.0 Aug 2023 – Aug 2027
Relevant Coursework: Data Structures & Algorithms, Machine Learning, Database Management Systems

O.P. Jindal School Savitrinagar Tamnar, Chhattisgarh
12th Standard CBSE — Percentage: 94% July 2020 – July 2021
Subjects: Mathematics, Physics, Chemistry, Computer Science

EXPERIENCE

AI/ML Intern May 2025 – June 2025
O.P. Jindal Group Tamnar, Chhattisgarh

- Executed comprehensive end-to-end deployment including installation of 50+ IP cameras, network configuration of Hikvision NVRs, and integration of PoE switches for seamless data transmission

PROJECTS

Advanced Deepfake Detection System — *Python* Feb 2025 – April 2025

- Engineered robust deepfake detection system utilizing advanced 2D Convolutional Neural Networks and transfer learning techniques, achieving 92% accuracy on comprehensive dataset of 50,000+ real and synthetic facial images
- Implemented sophisticated image preprocessing pipeline with data augmentation strategies and feature extraction methods to detect subtle deepfake artifacts and inconsistencies
- Optimized model architecture through hyperparameter tuning and regularization techniques, reducing inference time by 25% while maintaining high detection precision for real-time applications

Drug Review Sentiment Analysis Platform — *Python* Oct 2024 – Dec 2024

- Developed comprehensive web application for pharmaceutical sentiment analysis utilizing advanced NLP techniques on 161,218 patient drug reviews from Kaggle dataset, achieving 90% classification accuracy
- Implemented feature engineering and text preprocessing pipeline including tokenization, lemmatization, and TF-IDF vectorization for optimal model performance
- Created interactive data visualizations and statistical dashboards using Matplotlib and Seaborn to analyze drug effectiveness patterns, side effects correlation, and patient satisfaction trends
- Deployed production-ready Streamlit interface with real-time prediction capabilities, enabling healthcare professionals to efficiently analyze patient feedback and drug efficacy

TECHNICAL SKILLS

Programming Languages: Python, C++, SQL
Machine Learning & AI: TensorFlow, Keras, Scikit-learn, LightGBM, Computer Vision, Natural Language Processing, Deep Learning, Convolutional Neural Networks, Transfer Learning, Generative AI, Large Language Models, Prompt Engineering
Tools & Platforms: Git, GitHub, Jupyter Notebook, Google Colab, VS Code, Streamlit
Database Management: MySQL
Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, OpenCV
Languages: Hindi (Native), English (Fluent)

CERTIFICATIONS & ACTIVITIES

Professional Certifications:

- Generative AI Complete Course - CampusX (2025)
- Machine Learning Specialization - Stanford University & DeepLearning.AI (Coursera)
- Machine Learning A-Z with Python & R (Udemy)
- Deep Learning A-Z with Artificial Neural Networks (Udemy)

Competitive Programming: Active contributor on LeetCode with 100+ algorithmic problems.