

Hitesh Kumar Patel

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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

- Developed and deployed AI-powered CCTV surveillance systems using computer vision algorithms for industrial security monitoring, improving automated threat detection accuracy by 40% across multiple facilities
- Managed comprehensive end-to-end deployment including physical installation of 50+ IP cameras, network configuration of Hikvision NVRs, and integration of PoE switches for seamless data transmission

PROJECTS

Deepfake Detection System — Python

Jan 2025 – Feb 2025

- Built robust deepfake detection system using advanced 2D Convolutional Neural Networks and transfer learning techniques, achieving 92% accuracy on 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 using 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 using 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

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:

- 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 solved across easy, medium, and hard difficulty levels

