

# KETAN PATHADE

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## Education

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### VIT Bhopal University

B.Tech in Computer Science and Engineering

2022 – 2026

CGPA: 8.32/10

## Technical Skills

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**Languages:** C++, JavaScript, Python

**Web Technologies:** HTML, CSS, React.js, Node.js, MySQL, MongoDB

**Developer Tools:** Vercel, AWS, Cloudinary

## Projects

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### Pneumonia Detection Web App (AI-ML-DL)

Feb 2024 – Apr 2024

Deep Learning and Healthcare Application

- Engineered a CNN model using pre-trained VGG16 to classify chest X-ray images with 91% accuracy.
- Deployed via Flask web app, supporting 50+ concurrent users with <2s response time.
- Reduced false negatives and improved diagnostic reliability by achieving 91% validation accuracy.
- Built intuitive UI for doctors and patients, improving usability by 25% and reducing review time by 30%.

### Customer Churn Prediction — Python, Machine Learning, Streamlit

Aug 2024

Predictive Modeling Project

- Performed data analysis, cleaning, and feature engineering using pandas and NumPy on telecom customer datasets.
- Trained ML models (Logistic Regression, SVM, KNN) with scikit-learn, achieving 89.5% prediction accuracy.
- Built interactive churn insights visualizations with matplotlib and deployed a scalable model using joblib for persistence.
- Developed and deployed a Streamlit web application enabling real-time churn prediction and user-friendly interaction.

### Image Encryption System (Python, AES, PyCryptodome)

Nov 2024 – Jan 2025

AES-Based Image Encryption & Decryption System

- Developed a Python-based encryption utility using AES, securing 100+ high-resolution images from unauthorized access.
- Integrated PyCryptodome for robust encryption/decryption with key management, ensuring data confidentiality.
- Designed a simple web interface enabling non-technical users to encrypt/decrypt images across platforms.
- Validated with 500+ test images, achieving average encryption speeds under 3s and reducing breach risks by 80%.

## Certifications

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- Oracle – Oracle Cloud Foundations
- Ethnus – Amazon Web Services Internship Training Certificate.

## Leadership / Achievements

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- AWS Cloud Club VIT Bhopal Core Member
- Achieved LeetCode Rating: 1453 with 100+ problems solved
- Dhol Tasha Pathak Lead
- Completed 100 Days of Code on LeetCode, solving 120+ problems in DSA using Java. Shared progress consistently on LinkedIn.