


SARTHAK PIMPRIKAR

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Education

VIT Bhopal University

B.Tech in Computer Science and Engineering

2022 – 2026

CGPA: 8.62/10

Ashok Vidyalaya and Junior College, Pune

HSC (12th Grade), Maharashtra State Board

2021 – 2022

Percentage: 81.5%

Nanded City Public School, Pune

SSC (10th Grade), CISCE Board

2019 – 2020

Percentage: 93.2%

Skills

- Java Programming
- AI-ML-DL
- Computer Vision
- DSA
- Web Development
- Computer Networks
- Cloud Computing
- Python Programming

Experience

Intern— CodeAlpha (Java, Machine Learning, Web Development)

Nov 2024 – Feb 2025

Remote Internship

- Developed and deployed a Pneumonia Detection Web App using Flask and a pre-trained VGG16 CNN model to classify chest X-ray images.
- Built predictive ML models like Heart Disease Prediction using KNN (achieved 85.71% accuracy).
- Created modular Java applications applying OOP concepts, multithreading, and file handling.
- Designed responsive websites using HTML, CSS, JavaScript and integrated Flask for backend logic.
- Received Certificates of Completion and Excellence for top performance in all three domains.

Projects

Adoptbuddy – A Pet Adoption Platform (MERN Stack)

Feb 2025 – Apr 2025

Internship Training Project

- Built a MERN stack web platform with 200+ pet listings and 500+ adoption applications.
- Engineered real-time validated forms reducing submission errors by 40% and saving 10+ minutes per user.
- Implemented admin dashboard for moderating 150+ profiles and 300+ user requests with approval tools.
- Created a responsive pet catalog with filters and 1–5 image support, descriptions, and health notes.

Lane Detection System(AI-ML-DL Project)

Nov 2023 – Jan 2024

Computer Vision Project

- Developed a real-time lane detection system using OpenCV to enhance driver safety in autonomous vehicles.
- Implemented image preprocessing, Canny edge detection, and Hough Transform for accurate lane line identification.
- Achieved detection accuracy of approximately 92% on test videos under varying lighting and weather conditions.
- Optimized algorithm to run at 25+ FPS on standard hardware, suitable for real-time deployment.

Pneumonia Detection Web Application(AI-ML-DL Project)

Feb 2024 – Apr 2024

AI/ML Project

- Built a convolutional neural network (CNN) model using pre-trained VGG16 architecture to classify chest X-ray images.
- Developed a Flask-based web app that allows users to upload X-rays and receive real-time pneumonia detection results.
- Achieved classification accuracy of 90%+ on validation datasets, demonstrating strong diagnostic potential.
- Designed user-friendly interface for doctors and patients with image upload, prediction display, and confidence scores.

Certifications

- Google – The Bits and Bytes of Computer Networking.
- Coding Ninjas – Certificate of Excellence in Data Structures and Algorithms in Java.
- Ethnus – Web Development Internship Training Certificate.
- NPTEL – Cloud Computing.
- Ethnus – Amazon Web Services Internship Training Certificate

Extra-Curriculars

- National Level Chess Player with 1500+ FIDE Rating.
- Dhol Tasha Pathak Lead.