Sarthak Pimprikar

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Education

VIT Bhopal University	**2022 − 2026**
B.Tech in Computer Science and Engineering	*CGPA: 8.62/10*
Ashok Vidyalaya and Junior College, Pune	**2021 − 2022**
HSC (12th Grade), Maharashtra State Board	*Percentage: 81.5%*
Nanded City Public School, Pune	**2019 − 2020**
ICSE (10th Grade), CISCE Board	*Percentage: 93.2%*

Skills

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