

Sanket Adsare

sanketadsare5@gmail.com | +91-8010788050

Pune | Portfolio | LinkedIn | GitHub

Summary

I am a Full-Stack Developer with expertise in CPP,Python, React, and deep learning, specializing in scalable web applications and AI-driven solutions. Proficient in building real-time, user-centric systems and optimizing machine learning models for high accuracy. Adept at leveraging modern frameworks and embedded systems to deliver innovative, efficient solutions in collaborative environments.

Education

Graduation CGPA: 8.17 – Pune Vidyarthi Griha’s College of Engineering, SPPU	2022 – 2026
12th Grade (HSC): 75% – Residential Junior College, Ahilyanagar	2020 – 2022
10th Grade (SSC): 94% – New English School, Parner	2020

Technical Skills

- **Languages:** C++, Python, JavaScript, SQL
- **Web Development:** React, Next.js, HTML, Bootstrap
- **AI/ML Tools:** TensorFlow, Keras, NumPy, Pandas, OpenCV, DeepFace
- **Embedded Systems:** Raspberry Pi, ESP32, Arduino IDE, SolidWorks, YOLO
- **Tools:** Git, GitHub, VS Code, Flask, MongoDB

Experience

Brain Tumor Detection Research Intern (IIT Bombay)	March 2025
<ul style="list-style-type: none">◦ Developed a deep learning model using Xception architecture, achieving 99.2% accuracy in classifying brain MRI images into four tumor types.◦ Applied advanced image preprocessing and data augmentation to enhance model robustness and performance.◦ Deployed model with Gradio for real-time predictions, streamlining end-to-end dataset preparation and user interaction.	
Research and Design Intern (OpenDroids Robotics Startup USA)	Jan 2025
<ul style="list-style-type: none">◦ Designed robot components using SolidWorks and implemented computer vision with YOLO for innovative robotics solutions.◦ Configured Raspberry Pi for control systems and sensor interfacing, optimizing automation and real-time processing.	

Projects

Facial Recognition Attendance System	ongoing 2025
<ul style="list-style-type: none">◦ Developed a full-stack system for automated attendance using facial recognition, featuring a responsive admin dashboard with real-time analytics and data visualization.◦ Implemented secure role-based authentication and automated reporting, ensuring efficient user management and scalability.◦ Tools: Next.js, React, TypeScript, Flask, MongoDB, OpenCV, DeepFace	
EzChange	Jan 2025
<ul style="list-style-type: none">◦ Built a platform to exchange used books and materials among college students, promoting sustainability and reducing bookstore brokerage.◦ Designed responsive front-end pages using React, contributing creative UI/UX ideas to enhance user engagement and navigation.◦ Tools: Next.js, Node.js, PostgreSQL, TailwindCSS	
Handwritten Digit Recognition	2024
<ul style="list-style-type: none">◦ Built a CNN-based model to classify MNIST handwritten digits with 97.2% accuracy, optimizing through hyperparameter tuning.◦ Evaluated model performance using precision, recall, and F1 score, ensuring robust and reliable predictions.◦ Tools: TensorFlow, Keras, NumPy, Pandas	
Automatic Gate Opening System	2024
<ul style="list-style-type: none">◦ Created a secure gate access system using ESP32-CAM and QR code verification against a pre-stored database for authorized access.◦ Enhanced security with real-time QR code scanning, ensuring seamless operation and user authentication.◦ Tools: ESP32, Arduino IDE	

Certifications

- Deep Learning (NVIDIA Deep Learning Institute)
- MATLAB (MathWorks)