SANKET ADSARE

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Summary

Passionate Full-Stack Developer with expertise in JavaScript, React, and real-time interactive web applications. Experienced in building scalable, user-centric solutions with a strong foundation in machine learning and deep learning. Proficient in technologies including Power BI, Python, C++, and IoT, with hands-on project experience in model training, brain tumor detection.

Education

Pune Vidyarthi Grih's college of engineering SPPU *2022 – 2026*

Bachelor of Electronics and telecommunication

- SGPA: 8.86

HSC and SSC *2020– 2022*

- 10th-94% New English School,Parner
- 12th-75%. Residential Jr.College,Ahmednagar

Technical skillS

Programming Language: C++, Python, JavaScript, SQL

Web development: HTML,Javascript,React,WebRTC,Bootstrap

Analytical Tools: Power BI, Excel, SQL Workbench, MATLAB

Tools: Git,GitHub,VS Code, MATLAB ,Arduino IDE ,Jupyter Notebook

Core Skills: Collaborative work, Critical thinking, Communication

Experience

Brain Tumor Detection Research Intern *IIT Bombay* — Mumbai, India January 2025 - Present

- **Technologies:** Python, TensorFlow, Keras, Jupyter Notebook, Kaggle, Gradio
- Developed and trained a deep learning model using Xception architecture, achieving 99.23% accuracy in classifying brain MRI images into four tumor types.
- Applied image preprocessing and data augmentation techniques to enhance model performance and ensure robust predictions.
- Implemented end-to-end deployment with Gradio, enabling real-time prediction capabilities and handling dataset preparation.

Research and Design Intern *OpenDroids Robotics Startup* — USA January 2025 - Present

- **Technologies:** SolidWorks, YOLO, Raspberry Pi, Python, Embedded Systems
- Designed robot components using SolidWorks and implemented computer vision with YOLO for innovative robotics solutions.
- Configured Raspberry Pi for control systems and sensor interfacing, gaining hands-on experience in embedded systems, automation, and robotics development.

Projects

Facial Recognition Attendance System :`Currently working` 2024-25

full-stack development

- **Technologies:** Next.js, React, TypeScript, Python, Flask, MongoDB, OpenCV, DeepFace
- Modern Web Dashboard: Created responsive admin interface with real-time charts, data tables, and interactive components using latest React patterns
- Key Features: Real-time analytics dashboard, role-based authentication, automated reporting

Handwritten Digit Recognition 2024

- **Tools Used:** Jupyter Notebook, Numpy,Pandas,Machine Learning, Deep Learning, TensorFlow/Keras, Python
- Developed a CNN-based machine learning model to classify handwritten digits from the MNIST dataset with 97.20% accuracy. including hyperparameter tuning and evaluation metrics (precision, recall, and F1 score).

Javascript Projects 2024

- Built and deployed multiple JavaScript-based web apps, including a Weather App, To-Do List, Currency Converter, and Tic Tac Toe game, applying core concepts like DOM manipulation, API integration, and local storage.

Automatic gate open using ESP32 CAM and QR 2024

- **Tools Used:** ESP32 Cam-module , QR Generator.
- An automatic gate opening system using an ESP32-CAM and QR code technology enhances security by allowing access only to authorized personnel through QR code verification against a pre-stored database.

Achievements

Certifications: Deep Learning(NVIDIA) , MATLAB

Curriculum : Athletic enthusiast

Hobbies : Swimming , Reading Books , Solving Aptitude Questions and Rubik's cube