Sanyam Kudale

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Education

Savitribai Phule Pune University CGPA: 8.72
B.E. in Computer Engineering — Modern Education Society's Wadia College of Engineering, Pune *2021 – 2025*

Kisan Veer Mahavidyalaya, Wai 93.17%
12th Board (HSC) *2019 – 2021*

Dravid Highschool, Wai 89%
10th Board (SSC) *2013 – 2019*

Experience

Capsitech IT Services Apr 2025 – Aug 2025
Machine Learning Engineer Trainee
- Completed a 6-month structured training program in Machine Learning and Artificial Intelligence.
- Gained hands-on experience in data preprocessing, model building, and deployment.
- Worked on projects involving supervised and unsupervised learning, NLP, and computer vision.
- Collaborated with a team of trainees to design and deliver AI-driven applications.

ML Research Intern — Wadia College of Engineering Jan 2024 – Mar 2024
- Developed a hand gesture recognition system using OpenCV and TensorFlow, trained on **1,000+ gesture samples**.
- Achieved **97% accuracy** in real-time recognition, improving interaction speed by **40%**.
- Delivered project reports and demo under the guidance of Prof. J.R. Pansare.

Projects

From-Alt-text-to-Real-Context-with-AI Feb 2025 – Mar 2025
- Developed a Flask-based AI web app for **image analysis**, featuring alt text generation, SEO content, social media optimization, and medical image analysis.
- Implemented **real-time object detection, advanced color analysis, and contextual scene understanding** using deep learning.
- Stack: Flask, TensorFlow, OpenCV, NLP, HTML, CSS, JavaScript.

Voice-powered Calculator Jan 2025 – Jan 2025
- Built a calculator using Azure Speech Services with **98% speech-to-text accuracy**.
- Integrated Azure Cognitive Services for **real-time voice recognition and feedback**.
- Stack: Azure AI, Python, Flask, HTML, CSS, JavaScript.

Bird Species Prediction using CRNN Jan 2024 – May 2025
- Designed a CRNN model to classify **40 bird species** using **800+ audio samples and 1,000+ images**.
- Extracted spatio-temporal features with CRNN and improved accuracy via transfer learning (VGG16).
- Deployed as a Flask web app with interactive visualization.

Technical Skills

- **Languages:** Python, C++, JavaScript, HTML, CSS
- **Frameworks/DB:** Flask, MySQL
- **Machine Learning:** Machine Learning, Deep Learning, NLP, Computer Vision, Model Deployment
- **Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, OpenCV, Librosa
- **Tools:** GitHub, VS Code, Jupyter Notebook, Excel

Certifications

- TCS iON Career Edge - Young Professional Training
- Microsoft Learn Cloud Skills Challenge on Azure AI Fundamentals
- Infosys Foundation: AI Course Completion