

Juideepa Das

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Final Year, Artificial Intelligence and Data Science Undergrad
Ajeenkya D.Y. Patil School of Engineering SPPU, Pune

EDUCATION

- **Ajeenkya D.Y. Patil School of Engineering, Pune** Jul 2026
Bachelor of Engineering - Artificial Intelligence and Data Science SGPA: 8.80 (Sem 7)
- **R.K.T, Ulhasnagar** Mar 2022
Maharashtra State Board of Secondary Education Percentage: 72.50%
- **S.I.C.E.S HIGH SCHOOL, AMBARNATH (W)** Mar 2020
Maharashtra State Board of Secondary Education Percentage: 87.60%

PROJECTS

- **Noise2Clean – Image Restoration using Deep Learning** Jun 2024
Developed a deep learning-based image restoration system to remove salt and pepper noise from damaged images using a U-Net convolutional neural network, involving supervised model training and performance evaluation to generate clean, high-quality reconstructed images.
 - Tools & technologies used: Python, TensorFlow, Keras, NumPy, Matplotlib, Google Colab
- **Virtual Input Devices** Mar 2024
Developed a system that allows users to control mouse and keyboard functions using hand gestures, enabling touch-free interaction with a computer.
 - Tools & technologies used: Python, Mediapipe, OpenCV, Numpy, Hand Tracking Module, Windows
 - Improving user experience with hand gesture technology, emphasizing Human-Computer Interaction by eliminating the need for hardware such as keyboards and mice.
- **Medical Diagnostic Assistant Application** Mar 2025
Developed an intelligent assistant application to aid in preliminary medical diagnosis. The system analyzes user-provided symptoms and medical images to predict possible health conditions
 - Tools & technologies used: Python, Streamlit, Google Gemini LLM
- **Road Object Detection**
Implemented YOLO for real-time detection of vehicles, traffic signals, and pedestrians to reduce accidents and support intelligent transportation.
- **Document Q&A Assistant**
Built an interactive question-answering system using Streamlit, Gemini AI, and advanced retrieval techniques. The application allows users to upload complex document collections (PDFs, text files, reports) and ask natural language questions

TECHNICAL SKILLS

Programming: Python, C++, SQL

Tools: Google Collab, Jupyter Notebook, VS Code, Power BI, n8n

Data Analysis and cleaning: Pandas, Numpy, Matplotlib, Seaborn, EDA, Statistical Analysis

Machine Learning & Deep Learning: Scikit-learn, OpenCV, TensorFlow/PyTorch, YOLO (Object Detection), CNNs, GANs, Autoencoders

LLM & AI Frameworks: Langchain, Transformers, Hugging Face

Soft Skills: Leadership, Communication, Problem-Solving, Resilience, Team Work, Time Management

Development & Deployment: Flask, FastAPI, Streamlit.

Achievements

- **PYTHON FOR DATA SCIENCE**
 - Got 69% with Elite Certificate in Python for Data Science from IIT Madras
- **1st Rank in Project-Based-Learning in College** Apr 2024
 - Got first rank in our college for 'Virtual Input Devices Project'.
 - This is my project idea for leading towards sustainable society by reducing e-waste.
 - It helped me boost my confidence in HCI domain and in coding as well.
- **Published Research Paper** Apr 2024
 - Build a project on Music recommendation using Emotion sensor technology.
 - Published a related research paper in the International Journal for Research in Applied Science and Engineering Technology (iJRASET).

CERTIFICATIONS

- AWS advancement in Machine Learning
- AWS Cloud Computing Fundamentals
- NVIDIA Certification for Fundamentals of Deep Learning

Internships:

1. iGurus Consultancy, Virtual

Worked as a Data Scientist Intern on a Malaysian government project, where I focused on data cleaning, data preparation, exploratory data analysis, and creating visualizations to understand user internet usage patterns.

2. Uptoskills, Virtual

Worked as a Data analyst intern and performed task like Data mining, Data Cleaning, etc.

3. Postulate infotech private limited

- Led a team of 5 members to develop and deploy multiple computer vision projects using deep learning techniques.
- Built a **Road Object Detection Model** using Convolutional Neural Networks (CNNs) to identify and classify objects in real-time from traffic footage.
- Developed an **Image Restoration System** that removes noise and restores clarity in old or damaged images using Autoencoders.
- Created an **Artistic Image Generator** leveraging Generative Adversarial Networks (GANs) to transform regular photos into stylized artistic formats.
- Worked extensively with Python, TensorFlow, Keras, OpenCV, and Jupyter Notebooks.
- Gained hands-on experience in model training, performance evaluation, and iterative tuning for accuracy and efficiency.