

Jay Parvadiya

Amareli,Gujarat | jayparvadiya.d@gmail.com | +91 8866738670

[linkedin.com/in/jay-parvadiya](https://www.linkedin.com/in/jay-parvadiya) | github.com/Jay-Parvadiya

OBJECTIVE

Aspiring IT professional and enthusiastic engineering student with a strong foundation in Python programming and AI/ML, seeking a challenging role or internship to apply and expand technical skills. Experienced in automation and data processing through a Python Developer internship at Multiminds Technology. Certified in DBMS, DSA, OS, and Ethical Hacking via NPTEL, with a keen interest in AI, robotics, and emerging technologies. Committed to continuous learning and solving real-world problems through innovation and technology.

Education

Btech in Information Technology at Charotar University of Science and Technology(CHARUSAT), Anand

Sept 2022 – May 2026

- CGPA: 7.6/10.0

Oxford School of Science

Jun 2021 – Mar 2022

- H.S.C. : Percentage : 82%

Skills

Languages: Python, C++, C, Java

Frameworks: TensorFlow, scikit-learn, Flask

Libraries & Tools: NumPy, Pandas, OpenCV, Pickle

Version Control: Git, GitHub

Technologies & IDEs: VS code, Pycharm, Jupyter

Soft Skills: Communication, Time management, Teamwork, Problem solving

Experience

Python Developer Intern, Multiminds Technology – Ahmedabad, Gujarat

May 2024 – Jun 2024

- Developed a desktop voice assistant in Python to automate routine tasks such as opening applications, browsing the Internet, and managing system operations, enhancing user productivity.
- Implemented speech recognition and text-to-speech functionalities using libraries like SpeechRecognition, pyttsx3 and pyaudio.
- Integrated task scheduling and real-time voice command processing for seamless desktop interaction.

Projects

Crop Recommendation System

- Built a machine learning-based application to recommend optimal crops using parameters such as NPK values, soil pH, temperature, humidity, and rainfall.
- Designed the front-end using Flutter and developed the backend in Python with Flask for API handling and model integration.
- Utilized machine learning libraries including TensorFlow, scikit-learn, and NumPy; used Pickle for model serialization and Pillow for image processing.
- Features included crop suggestions, planting time predictions, fertilizer advice, and yield estimation to support sustainable agriculture.
- **Technology Used:** Flutter, Python, Flask, TensorFlow, scikit-learn, NumPy, Pickle, Pillow
- **GitHub:** https://github.com/Jay-Parvadiya/Agriculture_Crop_Recommandation_App

Emotion Detection Using Deep Learning

- Developed a deep learning model to classify facial expressions into different emotional categories using convolutional neural networks (CNNs).
- Used Keras with TensorFlow backend to design and train the model on the FER (Facial Expression Recognition) dataset from Kaggle.
- Performed extensive data preprocessing, visualization, and exploration using Pandas, NumPy, Seaborn, Matplotlib, Pyplot, and Scikit-plot.
- Evaluated the model using accuracy, confusion matrix, and training/validation loss plots to fine-tune performance.
- **Technology Used:** Python, Keras, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn, Pyplot, Scikit-plot
- **GitHub:** https://github.com/Jay-Parvadiya/emotion_recognition_application

Sign Language Recognition Website

- Built the backend for a real-time system that translates hand gestures from sign language into text or speech using deep learning techniques.
- Utilized TensorFlow to train and deploy a gesture recognition model capable of identifying various hand shapes, positions, and motions.
- Designed and implemented model training pipelines, preprocessing routines, and API endpoints for real-time gesture inference.
- Integrated camera input processing and ensured smooth interaction between the ML model and front-end interface (developed by a teammate).
- **Technology Used:** Python, TensorFlow, OpenCV, Java Script, HTML, CSS, NumPy, Keras, Mediapipe
- **GitHub:** https://github.com/Jay-Parvadiya/Sign_Language_Recognition

Certifications

NPTEL Certification in Database Management Systems (DBMS)	Jul – sept 2023
NPTEL Certification in Data Structures and Algorithms (DSA)	Jul – Oct 2023
NPTEL Certification in Operating Systems (OS)	Jul – Oct 2024
NPTEL Certification in Ethical Hacking	Jul – Oct 2024