Rutuja Barbande

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Summary

As an Al and data analysis expert, I specialize in machine learning, natural language processing (NLP), and data interpretation using Python. I have a solid background in python. My goal is to provide innovative solutions for important projects by applying my technical skills and eagerness to learn and grow. I'm skilled in machine learning algorithms, neural networks, deep learning, and NLP. I use tools like Pandas, Numpy, TensorFlow, Keras, PyTorch, and Scikit-Learn. I'm also proficient in data processing, model evaluation, and feature engineering.

Skills

- **Programming language** : Python, Java
- **Frameworks**: Pandas, Numpy, TensorFlow, Keras, PyTorch
- SQL
- Deep learning
- Machine learning
- Data analysis and visualization
- Natural Language processing

Experience

Company Naskraft. Pvt ltd

Intern   2023

I have done 6 month internship after Engineering at Naskraft private limited , Chatrpati Shambhajinager.I have learn skills related to website development and android development.Developed Android applications using Java within the Android Studio environment.

Education

- **Center For Development of Advanced Computing, Pune**
  Post Graduate Diploma in Artificial Intelligence |75%   2024
- **Jawaharlal Nehru Engineering college**
  Bachelor's Degree in Electronic and Telecommunication CGPA: 8.60   2023
- **MGM College of Polytechnic**
  Diploma in Electronic and Telecommunication|91%   2020
- A.K. Waghmare High school
  Class 10th | 80%

Projects

- **Code-Mixed Text Translation**

    In this project, we created a translation system that can handle code-mixed text, focusing on translating Marathi into English. Code-mixed text combines words and phrases from different languages, making it challenging for traditional translation models. Our system uses advanced natural language processing (NLP) techniques to accurately detect and translate this mixed language. By focusing on Marathi, which is widely spoken in India, we aim to meet the growing need for effective translation tools in multilingual environments. Our goal is to develop a reliable and efficient translation system that can be expanded to other Indic languages, helping to overcome language barriers and improve communication in diverse linguistic settings.

- **Face Emotion Recognition**

    Developed a real-time emotion detection system utilizing a Convolutional Neural Network (CNN) model. The system captures live video feed using a webcam and processes the input frames to detect facial expressions. It uses the OpenCV library to detect faces and pre processes the the image data before feeding it into the trained CNN model. The model classifies emotions into seven categories: angry, disgust, fear, happy, neutral, sad, and surprise. The project demonstrates a practical application of computer vision and deep learning for real-time emotion analysis, offering potential uses in areas such as human-computer interaction.

Languages known

- English
- Marathi
- Hindi

Hobbies

- Swimming
- Travel