








Kushagra Pandya Machine Learning Engineer

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 Scholar  Portfolio  ORCID

Education

Marwadi University, B.Tech, Computer Engineering in 2020 – 2024 | Rajkot, India
Specialization in Artificial Intelligence
Coursework :- Python, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Statistics, Probability.

Skills

Technologies: Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, LLMs, Reinforcement Learning

Programming Frameworks: Tensorflow, PyTorch, OpenCV, NLTK, Spacy, Huggingface, Pandas, NumPy, Matplotlib, Seaborn

Programming Languages: Python, SQL

Professional Experience

Associate Software Engineer - AI, TSS Consultancy Pvt Ltd 01/2024 – present | Rajkot, India

- Built AI models for **document detection**, **face verification**, **deepfake detection**, and **multilingual OCR**, delivering efficient solutions.
- Improved **model speed by 90%** and reduced **model size** while maintaining high accuracy.
- Worked with **Azure OpenAI API**, **object detection**, **image classification**, and **OCR** to create scalable AI solutions.

Research Intern, TSS Consultancy Pvt Ltd 11/2022 – 08/2023

- Built projects in **online news scraping**, **financial sentiment analysis**, and **photo matching**.
- Utilized **Siamese Networks**, **Azure OpenAI API**, **web scraping**, **sentiment analysis**, and **NER** to develop scalable solutions.

Projects

Stock Market Crash Prediction Web App 

- Developed a Flask-based web app for stock market predictions using **ARIMA**, **LSTM**, and **Linear Regression**, with integrated tweet sentiment analysis for buy/sell recommendations.

Sign Language to Spoken Language Translator 

- Created an app that translates sign language gestures into text and speech using **ResNet50**, **TensorFlow Lite**, and **OpenCV**, supporting 18 languages including 8 Indian languages.

Publications

Enhancing DNA Sequence Classification through Machine Learning: A Comparative Study on Human and Chimpanzee Genomic Data, Global AI Summit (2024) 08/2024

Barcode and QR Code Object Detection: An Experimental Study on YOLOv8 Models, (2024 International Conference on Emerging Innovations and Advanced Computing (INNOCOMP)) 05/2024