Parth Khadse

M.Tech Student

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EDUCATION

M.Tech
Signal Processing & Machine Learning
Indian Institute of Technology, Kharagpur
CGPA: 8.02
2022-2024

B.Tech
Electronics Engineering
The Maharaja Sayajirao University of Baroda
Marks: 63.06%
2017-2021

Class 12th
Gujarat State Board
Marks: 78.15%
2017

Class 10th
Gujarat State Board
Marks: 78.17%
2015

SKILLS

PROGRAMMING LANGUAGES
- Python
- C++
- MATLAB
- C

LIBRARIES
- NumPy
- Pandas
- PyTorch
- OpenCV

SOFTWARE TOOLS
- LaTeX

OS PROFICIENY
- Windows
- Ubuntu
- Debian

PROFILE INFO

I'm an M.Tech student in Signal Processing and Machine Learning. My foundation includes Signal Processing algorithms, Machine Learning and Deep Learning methodologies. My current Research focus is on the speech processing technology. Through hands-on projects and coursework, I have developed a keen interest in image processing, feature extraction, and predictive modeling, aiming to contribute to impactful research in these fields.

COURSEWORK

- Linear Algebra for Signals & Systems
- Probability & Random Process
- Digital Image Processing
- Introduction to Digital Speech Processing
- Machine Learning for Signal Processing
- Deep Learning: Foundations & Applications
- Convex Optimization
- Statistical Signal Processing

PROJECTS

Cross Lingual Voice Conversion for Indian Languages
2023

the aim of this project was to develop a efficient deep learning based voice conversion system to convert the voice of a person speaking Hindi language to that of a person speaking Marathi language and vice-versa. The results can be seen at: https://parthkhadse.github.io/CrossLingual-VC-using-CycleGAN-VC2/

Background Subtraction from video using LBP
2022

This project was done as a part of Digital Image Processing course. In this project, the background of the video was removed by analyzing the Local Binary Patterns of the video frames.

Power Consumption prediction
2021

In this project, the aim was to predict the power consumed by the street lamps using statsitical method ARIMA and deep learning LSTM based model.

Neural Style Transfer
2021

Implemented the Neural Style Transfer Algorithm on images using TensorFlow