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MINI PROJECT

Gender Voice Recognization

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OUTLINE

- ABSTRACT
- REQUIREMENTS
- METHODOLOGY`
- ALGORITHM

ABSTRACT

- Gender Recognition (GR) means recognizing the gender of the person whether the person is men or women. It is a significant task for human beings, as many communal functions precariously rely upon correct gender awareness. Automatic human GR by machines has currently received symbolic attention in computer vision community. Features like face, 3D body shape, gait (manner of walking), footwear, fundamental frequency of voice etc are used for gender recognition. The ability to do automatic recognition of human gender is essential for several systems that process or exploit human-source information.

HARDWARE AND SOFTWARE REQUIREMENTS

- HARDWARE:-

Floppy Drive : 1.44 Mb.

System : Intel I-3, 5, 7 Processor,Monitor : 14’ Colour Monitor.

Hard Disk : 500 GB. Ram : 2Gb.

- SOFTWARE:-Coding Language : Python.

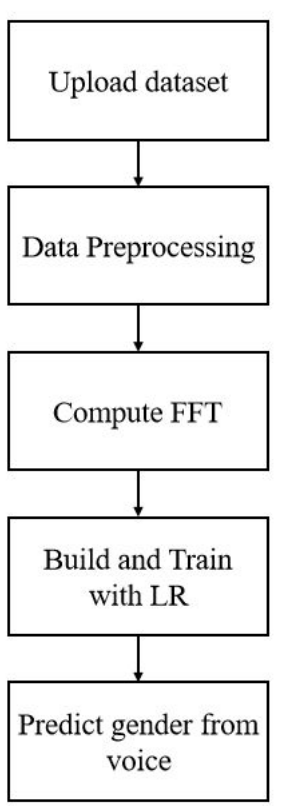
Operating system : Windows 7,8,10 Ultimate, Linux, Mac,Software Environment : Anaconda,

Front-End : Python.

METHODOLOGY

- The System uses Logistic Regression Algorithm.
- This System uses FFT - Fast Fourier Transform algorithm to cancel the surrounding noises.
- Another feature noise cancellation to this project to improve the accuracy of the model.
- Our model achieves 90% accuracy on the test data set.

Algorithm



Fast Fourier Series

A fast Fourier transform (FFT) is an algorithm that computes the discrete Fourier transform (DFT) of a sequence, or its inverse (IDFT). Fourier analysis converts a signal from its original domain (often time or space) to a representation in the frequency domain and vice versa. The DFT is obtained by decomposing a sequence of values into components of different frequencies.


THANK
YOU