

G.Narayanamma Institute of Technology & Science

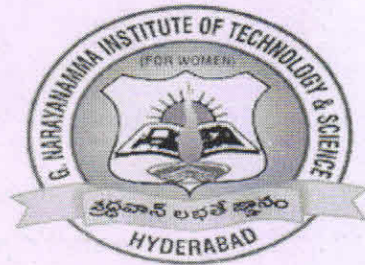
(For women)

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(An ISO 9001:2015 Certified Institution)

Shaikpet, Hyderabad – 500 104

Department of Computer Science & Engineering



VOICE SEPARATION

BY

Gayathri Adusumilli (19251A05C1)

Goudampally Sai Sindhuja(19251A05E4)

Suraka Mahalakshmi Reddy (19251A05H4)

Vulpala Akshara Reddy(19251A05H8)

M. S. S.

ABSTRACT

The cocktail party effect refers to the ability of the brain to focus on a single speaker while filtering out other voices and background noise. The same we implement using computer.

Here we use Independent Component Analysis, Deep Learning ,to separate voices. First we load audio files and then combine the speech sources. Then extract the sources from the speech mix. The application of a TF mask is an effective method for separating desired audio signals from competing sounds.

SYSTEM REQUIREMENTS:

Software Requirements:

Platform	- OpenCV Python
Operating Systems	- Windows 10
IDE	- MATLAB

Hardware Requirements:

Processor	- Above 1.5GHZ
Hard Disk Capacity	- 10GB
RAM Capacity	- 4 GB