



The Upcoming Revolution of Voice Recognition–A Case Study in Patna District

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Abstract : *Speech is the most prominent and primary mode of communication among human beings. The communication among human and computer interaction is called human computer interface. Speech has potential of being important mode of interaction with computer . The system consists of two components-first component is for processing acoustic signal which is captured by a microphone and second component is to interpret the processed signal, then mapping of the signal to words.*

The primary purpose of recognizing human speech is the ability to customize information (which are intended for people) for using with devices.

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This paper gives an overview of major technological perspective and appreciation of the fundamental progress of speech recognition.

The purpose of this study is to describe impact of voice recognition and permit a user to browse web based information using voice enabled browser running on desktop computer or handheld devices such as smart phones, IPADs etc.

Keywords: *Human computer Interface, Speech Processing, acoustic signal, processed signal, signal mapping.*

Introduction:

Speech Recognition is the process of converting a speech into text, and /or identification of the speaker. Over the years with recent advances in technology it has become an essential and integral part of our lifestyle due to the increasing communication between human being and computers or automated systems it is also known as **Automatic Speech Recognition (ASR)**, **Computer Speech Recognition** or **Speech To Text (STT)**.

Some speech recognition systems require "training" where an individual speaker reads text or isolated vocabulary into the system. The system analyses the person's speech.

Basic concepts of speech recognition : Speech is a complex phenomenon. People rarely understand how it is produced and perceived. The naive perception is often that speech is built with words and each word