ABSTRACT :

Speech processing is emerged as one of the important application area of digital signal processing .Various fields for research in speech processing are speech recognition, speaker recognition, speech synthesis ,speech coding etc. The objective of automatic speaker recognition system is to extract, characterize and recognize the information about speaker's identity.

Our proposed work consists of truncating a recorded voice signal, framing it, passing it through a window function, calculating the Short Term FFT, extracting its features and matching it with a stored template .A comprative study of different feature extraction techniques like Perceptual Linear Prediction (PLP), Linear Predictive Coding (LPC) and Mel frequency Cepstral Coefficients (MFCC) is carried out. Vector Quantization(VQ) is used for codebook generation and Euclidian Distance are used for matching purposes.