Speech is the nature’s gift to the human being which contributes towards the intelligence and discrimination from rest of the animal kingdom. Taking into consideration technological aspects, speech recognition is the buzzword today, as communication and hands free computing evolving day by day. Speech is a very important mode of the communication and interaction with the digital computer. Speech recognition along with the wide range of applicability in domain of computer science, medical science, psychology, sports, neurology has many challenges while developing. Developing real time speech recognizer may hurdle from adverse environment to anatomy of the human body. It also involves linguistic aspects too. This paper explores various challenges in developing a robust ASR system.

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**Index Terms**

Computer Science  
Pattern Recognition

**Keywords**

Speech, Speech recognition, communication, linguistics