## Index of Tables

1.1 Examples of Homophones 23  
1.2 Word Boundary Ambiguity 24  
3.1 Classes and Interfaces of the Java Speech Package 65  
3.2 Basic engine Selection Properties: EngineModeDesc 67  
3.3 Synthesizer Selection Properties: SynthesizerModeDesc 68  
3.4 Recognizer Selection Properties: RecognizerModeDesc 68  
3.5 Events of the Java Speech Package 73  
3.6 Events of The Java Speech Recognition Package 73  
3.7 Difference Between Rule Grammar and Dictation Grammar 77  
3.8 Methods for Rule grammar 79  
3.9 Methods for Dictation Grammar 81  
3.10 Methods for Result 83  
3.11 Runtime Properties of A Recognizer 86  
4.1 Mapping of Gujarati Vowels with English phoneme 98  
4.2 Mapping of Gujarati Consonants with English 98  
4.3 Mapping of Gujarati Consonant with Matra 99  
4.4 Mapping of Gujarati Numerals with English 99  
4.5 List of Words for Recognition 100  
4.6 All Recognition Result 109  
4.7 Age Group Wise Recognition Results 109  
4.8 Word Accuracy for All Words in Recognition 110  
5.1 Typical Lexicon 119  
5.2 Mapping of Hindi Vowels with English Phoneme 119  
5.3 Mapping of Hindi Consonants with English Phoneme 120  
5.4 Mapping of Hindi Consonant With Matra 120  
5.5 List of Gujarati Words for Recognition 131  
5.6 List of Hindi Sentences used for Recognition 132  
5.7 Recognition Result for Gujarati 133  
5.8 Recognition Result for Hindi 134