LIST OF TABLES
### List of tables

<table>
<thead>
<tr>
<th>Table no</th>
<th>Name of the table</th>
<th>Page no</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Classification of speech recognition difficulties</td>
<td>29</td>
</tr>
<tr>
<td>1.2</td>
<td>Various parameters to recognize speech recognition</td>
<td>40</td>
</tr>
<tr>
<td>2.1</td>
<td>Comparison of speech engine</td>
<td>50</td>
</tr>
<tr>
<td>2.2</td>
<td>Various Vocabulary systems and Digits</td>
<td>67</td>
</tr>
<tr>
<td>2.3</td>
<td>Results comparison of with ISP and without ISP</td>
<td>71</td>
</tr>
<tr>
<td>2.4</td>
<td>Word error rates on dev-fast with and with MFCC interpolation</td>
<td>75</td>
</tr>
<tr>
<td>3.1</td>
<td>Word Error Rate (WER) with Monophone and Senone</td>
<td>93</td>
</tr>
<tr>
<td>3.2</td>
<td>Comparison of results showing reduction in word error rate with the senones</td>
<td>95</td>
</tr>
<tr>
<td>3.3</td>
<td>Results of Phonetic Baseform Vs. Senonic Baseform</td>
<td>96</td>
</tr>
<tr>
<td>4.1</td>
<td>WER comparison between the baseline system with rate-independent model and the system with rate-dependent model on the development data set</td>
<td>106</td>
</tr>
<tr>
<td>4.2</td>
<td>WER comparison between the baseline system with rate-independent model</td>
<td>108</td>
</tr>
<tr>
<td>4.3</td>
<td>Minimal pair comparison based on an improved baseline system using a wider front end and VTL normalization on the development set</td>
<td>108</td>
</tr>
<tr>
<td>4.4</td>
<td>Minimal pair comparison based on a multiword-augmented baseline system on the development set</td>
<td>109</td>
</tr>
<tr>
<td>4.5</td>
<td>Minimal pair comparison on the development set between the multiword-augmented baseline system and the rate-dependent system with multiword-specific phone models</td>
<td>110</td>
</tr>
<tr>
<td>5.1</td>
<td>lists each of the candidate factors and a hypothesis for how each might affect user performance with speech recognition</td>
<td>117</td>
</tr>
<tr>
<td>5.2</td>
<td>Independent variables: measurement methods and coding schemes</td>
<td>123</td>
</tr>
</tbody>
</table>
5.3 Independent variables and their Pearson correlations with recognition accuracy (RA) and text entry rate (TER)

5.4 Model statistics for bivariate regression model of recognition accuracy as a function of scratch that usage

5.5 Statistics for each of nine candidate factors for the second independent variable in a regression model of recognition accuracy

5.6 Corpora comparison

5.7a Summary of collected data

5.7b Number of turns in the dialog

5.7c Success rate and average no. of turns

6.1 Major causes of Speech Variation

6.2 Ratio of Quiet to Noisy sessions

6.3 Signal-to-noise ratio (SNR)

6.4 Cheating Experiment Results

6.5 EER Results