**List of Figures**

|  |  |  |
| --- | --- | --- |
| S. No. | Topic | Page No. |
| 1 | Workflow of the project | 10 |
| 2 | Phonotactic Language Identification Systems | 11 |
| 3 | Gaussian Mixture Model (GMM) | 12 |
| 4 | Phone Recognition and Language Modelling (PRLM) | 14 |
| 5 | Parallel PRLM | 15 |
| 6 | Parallel Phone Recognition | 16 |
| 7 | LID system based on GMM tokenization and language modelling | 18 |
| 8 | DNN network topology | 19 |
| 9 | Sliding Window | 36 |
| 10 | Feature Extraction Process | 37 |
| 11 | Representative Neural Network Architecture | 40 |
| 12 | Feature Selection Process | 40 |
| 13 |  |  |
| 14 |  |  |