

Project Design Phase-I Solution Architecture

Date	19 November 2023
Team ID	Team-593126
Project Name	Lip reading using Deep Learning
Maximum Marks	4 Marks

Solution Architecture:

The lip reading system is designed to decipher spoken language by analyzing lip movements through the implementation of deep learning techniques. The architecture maximizes the accuracy of lip reading, facilitating applications in diverse domains such as speech recognition and accessibility

The lip reading architecture involves Neural Networks, LSTM to capture temporal dependencies and focus on crucial regions of lip movement during speech. This approach enhances the system's capability to accurately interpret spoken words in various contexts. The key components to success are:

- ☐ Data Collection
- ☐ Video Preprocessing
- ☐ Model Architecture
- ☐ Training and Testing
- ☐ Lip Reading Prediction

Solution Architecture Diagram:

