Project Design Phase-I
Solution Architecture

Date	21 NOVEMBER 2023
Team ID	Team-592184
Project Name	Alphabet Image Recognition
Maximum Marks	4 Marks

Solution Architecture:

The solution architecture for Alphabet Image Recognition is designed as a comprehensive and integrated system. At its core, the architecture employs machine learning algorithms, particularly convolutional neural networks (CNNs), for accurate recognition of ASL gestures.

Steps involved are:

1.Data Collection and Preprocessing

2.Algorithm Selection

3.Model Training

4.Real-time Processing Optimization

5.User Interface Design

6.Testing and Validation

7.Deployment

Example - Solution Architecture Diagram:
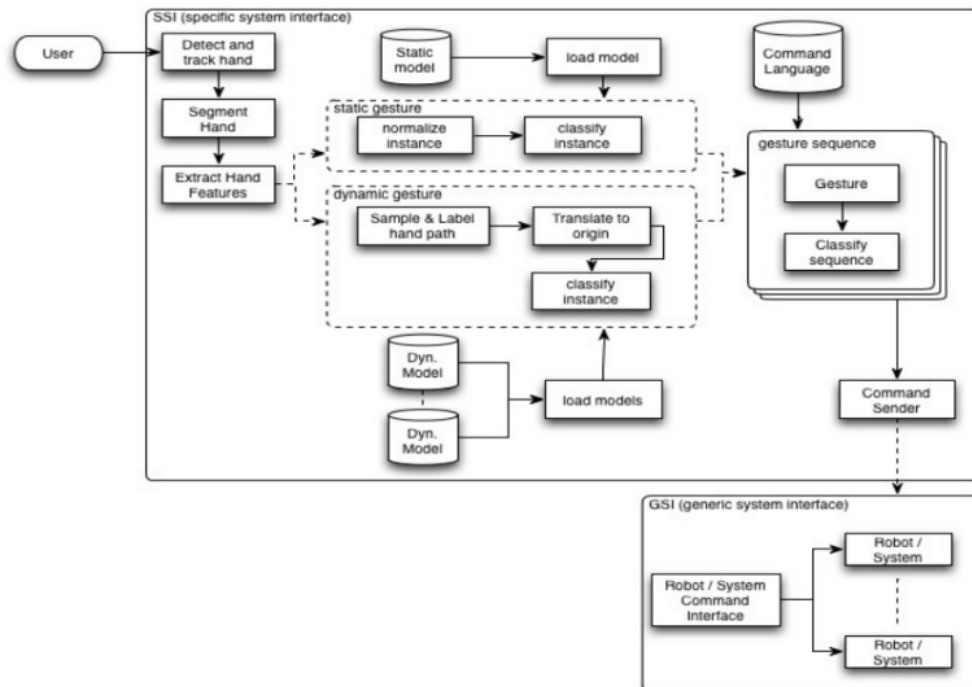
Solution Architecture Diagram:

Figure 1: Architecture and data flow of the ASL- Alphabet Image Recognition