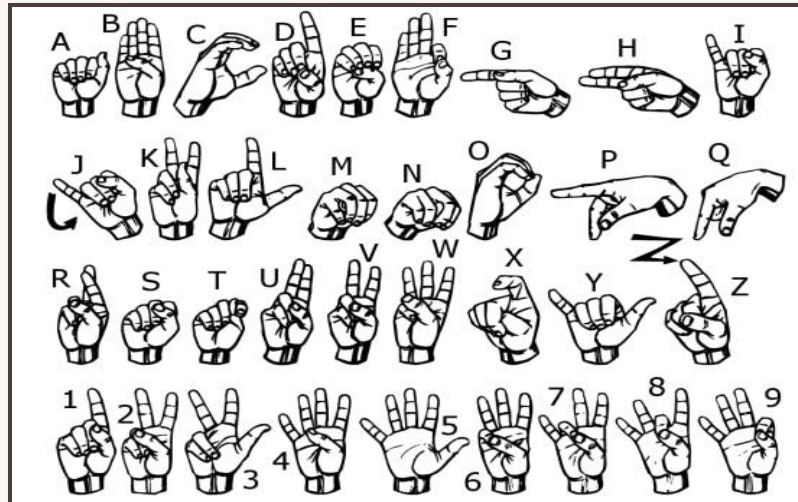# SIGN LANGUAGE RECOGNITION

By: Plakshi Saini
Vanshika Mahajan

SIGN LANGUAGE

- **Sign language is a non-verbal language these people can exclusively count on to connect with their social environment. It is based on visual cues through the hands, eyes, face, mouth, and body.**

- Conversing with people having a hearing disability is a major challenge. Hence, there is a need for systems that recognize the different signs and conveys the information to normal people.

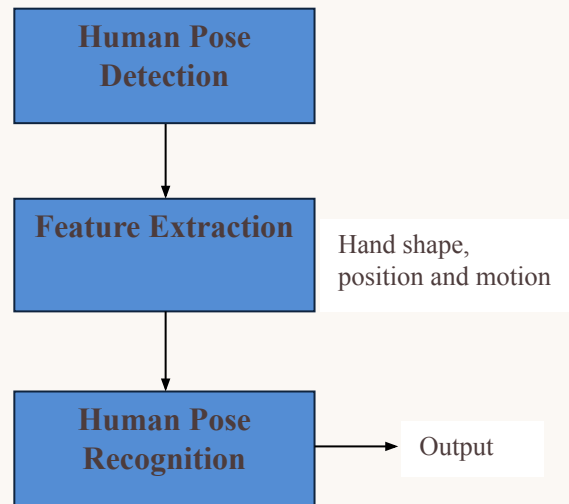- Sign Language Recognition is a breakthrough for helping deaf-mute people and has been researched for many years.
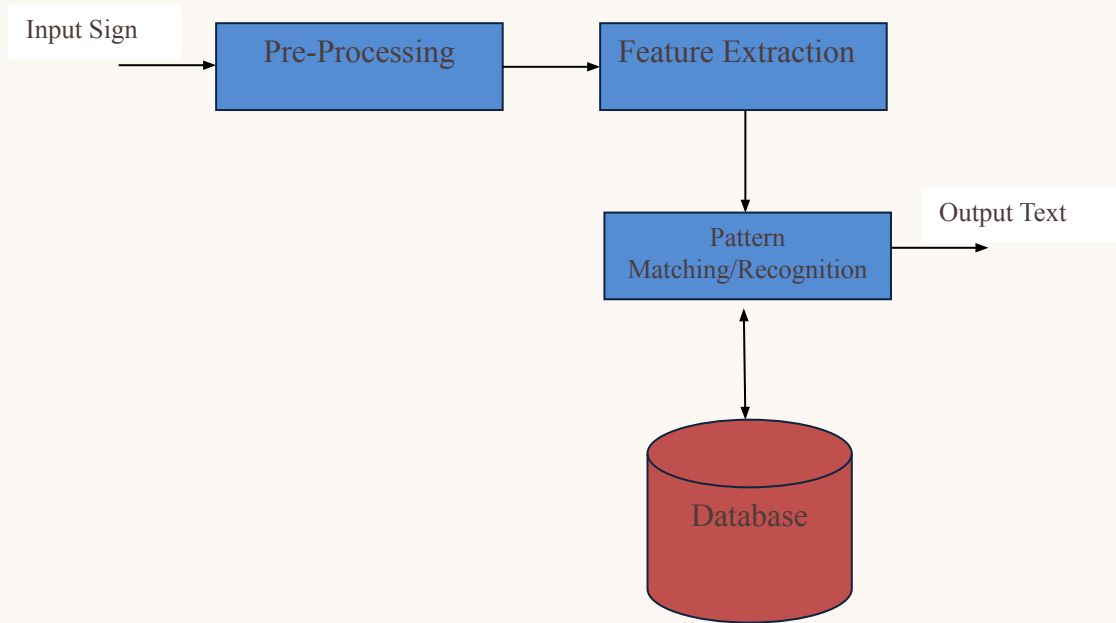
FUNCTIONAL MODULES
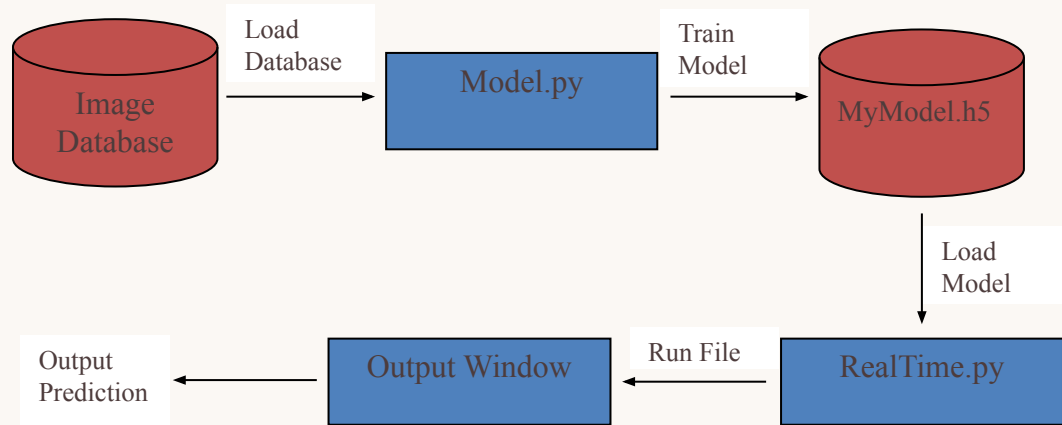
1. **Human Pose Detection**

2. **Feature Extraction**

3. **Human Pose Recognition**

Human Pose Detection

↓

Feature Extraction	Hand shape, position and motion

↓

Human Pose Recognition	→ Output

SYSTEM ARCHITECTURE

Input Sign → Pre-Processing → Feature Extraction → Pattern Matching/Recognition → Output Text
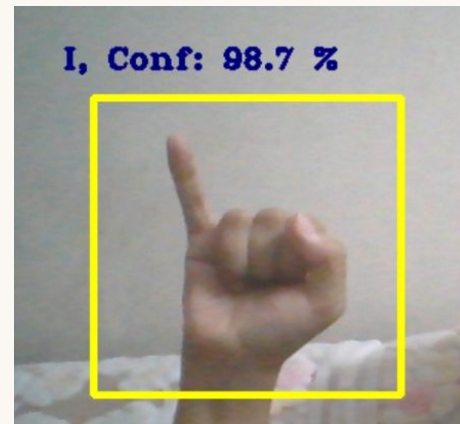
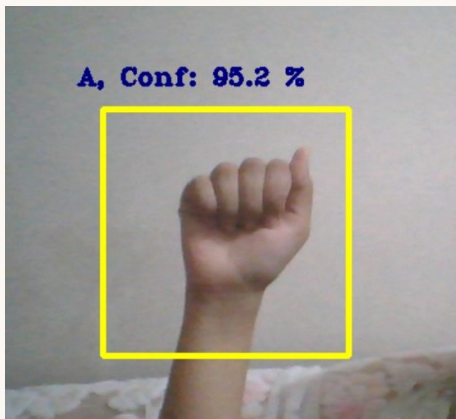Database

SOFTWARE DESCRIPTION

DATABASE USED

- **Our database contained 37500 images belonging to 25 different classes.**

RESULTS

- **The following pictures show the outputs we recorded while testing the real time sign language recognition tool:**

THANK YOU!