**Real-Time Communication System Powered**

**by AI for Specially Abled**

LITERATURE SURVEY:-

1. **A Signer Independent Sign Language Recognition with Coarticulation Elimination from Live Videos: an Indian Scenario**

P.K. Athira, C.J. Sruthi, A. Lijiya (2019)

**Advantage:** Economical can be implemented with a mobile camera which makes it very user-friendly

**Disadvantage**: Not efficient under cluttered backgrounds and different illumination conditions

1. **A Deep Learning based Indian Sign Language Recognition System**

Sruthi C. J and Lijiya A (2019)

**Advantage:** Training accuracy of 99.93% and with testing and validation accuracy of 98.64%.

**Disadvantage:** Facial expression and context analysis are the other part not included

1. **Hand Gesture Recognition for Sign Language Using 3DCNN**

Muneer AlHammadi, Ghulam Muhammad, Wadood Abdul, Mansour Alsulaiman, Mohamed A. Bencherif, And Mohamed Amine Mekhtiche (2020)

**Advantage:** The proposed approaches were compared with six other state-of-the-art methods from the literature. They outperformed four of these methods and showed comparable performance to the other two.

**Disadvantage:** Does not work for a live video feed.

**4) Deep Convolutional Neural Networks for Sign Language Recognition**

G. Anantha Rao, K. Syamala, P.V.V. Kishore, A.S.C.S. Sastry (2018)

**Advantage:** A less amount of training and validation loss is observed with the proposed CNN architecture.

**Disadvantage:** The database is not available publicly.