Project Proposal Deep Learning

Abstract:

Conversing with people having a hearing disability is a major challenge. Deaf and Mute people use hand gesture sign language to communicate, hence normal people face problems in recognizing their language by signs made. Hence there is a need for systems that recognize the different signs and conveys the information to normal people.

Question/need:

Make a model which can recognize Fingerspelling-based hand gestures in order to form a complete word by combining each gesture.

Data Description:

I will be using 2 datasets and then compare the results.
Dataset 1: MNIST Dataset : 28×28 pixels images
Dataset 2: Image Dataset: 200×200 pixels images

Tools:

I will use python because it contains libraries for Machine Learning also for exploratory analysis and data cleaning will use (pandas, Matplotlib, NumPy ,etc.).