**ASL Recognition with Deep Learning**

Build a convolutional neural network to classify images of letters from American Sign Language.

#### Project Description

American Sign Language (ASL) is the primary language used by many deaf individuals in North America, and it is also used by hard-of-hearing and hearing individuals. The language is as rich as spoken languages and employs signs made with the hand, along with facial gestures and bodily postures.

In this project, you will train a convolutional neural network to classify images of ASL letters. After loading, examining, and preprocessing the data, you will train the network and test its performance.

The recommended prerequisites for this project are [Deep Learning in Python](https://www.datacamp.com/courses/deep-learning-in-python) and [Convolutional Neural Networks for Image Processing](https://www.datacamp.com/courses/convolutional-neural-networks-for-image-processing).

#### Project Tasks

* 1 American Sign Language (ASL)
* 2 Visualize the training data
* 3 Examine the dataset
* 4 One-hot encode the data
* 5 Define the model
* 6 Compile the model
* 7 Train the model
* 8 Test the model
* 9 Visualize mistakes