**Assignment 4.2 AAI 521 – Team Project Status Update Form**

Fill out this form and submit it by the end of Module 4 in Blackboard.

1. Team Number: Group-2
2. Team Leader/Representative:
3. Full Names of Team Members:

1. Chris Teli

2. Olympia Saha

3. Prakash Perimbeti

1. Title of Your Project:

AI GALLAUDET: American Sign Language Translator

1. Short Description of Your Project and Objectives:

The project is a start of an attempt to create an ASL translator for realtime Video. Our starting attempt will be to detect ASL alphabet and numbers in real-time video.

1. Name of Your Selected Dataset:

We used multiple ASL datasets from Kaggle

### Smaller dataset

https://www.kaggle.com/datasets/ayuraj/asl-dataset

### Large dataset

<https://www.kaggle.com/datasets/grassknoted/asl-alphabet>

1. Description of Your Selected Dataset (data source, number of images, dimension of images, size of dataset, etc.):

### Smaller dataset

<https://www.kaggle.com/datasets/ayuraj/asl-dataset>

Size: 60MB

Images: 2515

### Large dataset

<https://www.kaggle.com/datasets/grassknoted/asl-alphabet>

Size: 1GB

Images: 8700

1. Description and Requirements:

1. What is the task, and why does it matter?

In many video conferences there is no ability for a person to use ASL and communicate with the rest of the audience. This project attempts to start in the direction of providing a translator for ASL based signs to an audience that does not understand signs. This will enable people with hearing impairments to be part of the discussion with resorting to separate channels.

1. How were the data measures, how raw is this dataset? For example, what type of camera(s) were used, have the photos been cropped or edited before you started using them?
2. Has this dataset been used a lot in the past for computer vision, either papers, applications, competitions and similar uses?
3. What is the feature extraction plan?
4. Is there any bad data, cropped image…? (This is not a hard stop, there are several ways we can handle this problem)
5. Are you using any cloud services to host and transfer data? If yes, provide the link here:

* No
* Our model is to use the data locally and train the model
* Once we have a well trained model we will include the model as .h5 file in the project to allow the user to switch between models to study the best model for the task

1. How many times have your members met in the last week?

* Our team has met once weekly
* We have captured our meeting logs
  + [project/TeamMeetings.md at main · usd521-team2/project (github.com)](https://github.com/usd521-team2/project/blob/main/TeamMeetings.md)

1. What was the agreed upon method of communication? Are you using any teamwork project management software, such as [Trello](https://trello.com/en-US) or [Asana](https://asana.com/)?
   1. We used a slack channel
   2. Zoom meetings
2. Comments/ Roadblocks: