**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: **3**
2. Team Leader/Representative: **Alejandro Monje**
3. Full Names of Team Members:

**1. Alejandro Monje**

**2. Xavier Plasencia**

**3. Edgar Munoz**

1. Title of Your Project: **Dog and Cat Classifier**
2. Short Description of Your Project and Objectives:

**Project will involve building a model to classify images of dogs and cats. Demonstrate EDA, preprocessing, modelling, validation and performance metrics, modelling results/findings.**

1. Name of Your Selected Dataset: **Dogs vs. Cats (Kaggle)**
2. Description of Your Selected Dataset (data source, number of images, dimension of images, size of dataset, etc.): [**https://www.kaggle.com/c/dogs-vs-cats/data**](https://www.kaggle.com/c/dogs-vs-cats/data)**. 25,000 training images of cats and dogs. Dimensions are of various sizes. Size of training dataset: 571 MB**
3. Description and Requirements: **To classify unseen images of cats and dogs, and if time permits, image segmentation of the animal (dog/cat).**
4. What is the task, and why does it matter? **The model will give users the ability to classify and isolate the dog or cat within an image. This will allow the user to save the image of the animal with no background, thus automating the background removal.**
5. 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? **The Kaggle dataset contains raw images found on google.**
6. Has this dataset been used a lot in the past for computer vision, either papers, applications, competitions and similar uses? **Yes. Previously, it has been used for Kaggle competitions.**
7. What is the feature extraction plan? **The CNN model will learn cat/dog features within each image to build a robust classifier. Additionally, the image segmentation model will require outlining each dog or cat (features).**
8. Is there any bad data, cropped image…? (This is not a hard stop, there are several ways we can handle this problem). **No bad data is evident at this point in time.**
9. Are you using any cloud services to host and transfer data? If yes, provide the link here:

[**https://github.com/AlejandroMonje/AAI-521-project**](https://github.com/AlejandroMonje/AAI-521-project) **(Note: Project link is private)**

**Google Colab, and Google Drive.**

1. How many times have your members met in the last week? **Twice.**
2. 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/)? **Zoom, Slack, Github**
3. Comments/ Roadblocks: **None.**