# **Monthly Meeting #1**8**:** Full Group **Meeting**

| **Meeting Date:** | Nov 9, 2023 6:15 PM | |
| --- | --- | --- |
| Meeting Time: | 6:15 PM ET | |
| Meeting Location: | Virtual | |
| Meeting Type: | Full Group Meeting | |
| Student Team Members: *(check box if in attendance)* | * Rachel * Vanessa * Kashish * Pamela * Elena * Nyah | |
| Other Attendees:  *(e.g., Challenge Advisor, TA)* | TA - Keith  CA - Maria | |

XML

# MEETING AGENDA

# Recap on XML task

* + Maria shares example

# Notes

# We want each object annotation within the image to be captured in an xml file, i.e. bounding box for each annotation

* MATLAB - Transfer learning
  + Reusing Pretrained layers
  + Replace layers
  + \*\* goal is to modify network
    - Same as in TF design layers of Deep Neural Network, in MATLAB can do the same but is more visual
  + \*\* Change some of the layers at the end
* Training will happen with one or 2 layers, help algorithm learn the new thing
* Maria will share TransferLearning.ipynb with us

1. Create custom folder structure in Google Drive (testing and training dataset)
   1. Images folder
      1. Contains images
   2. Annotations folder
      1. Contains xml files
2. Create and upload your image files and xml files
3. Generate TensorFlow records

* We need set of images and set of xml files for that training process
* Final Presentation
  + Explain what the problem is before jumping into the technical details\*\*
  + Cater to different audiences
    - Ensure there is an equal grasp of the problem and motivation for our project
  + Neha (the other MathWorks CA) is planning to have both MathWorks groups present to MathWorks, maybe in january if necessary, still working on logistics

# ACTION ITEMS

| **Task/Assignment** | **Team Member** | **Deadline** |
| --- | --- | --- |
| Research on how to convert to XML |  |  |
| consider finding a way to visually present how we chose the architecture in the final presentation slide deck |  |  |
| Think about how we balance the classes between pedestrians and bicycles |  |  |
| Try to understand what tensorflow records are and how to do transfer learning in tensorflow |  |  |