**Meeting 1 February 26, 2018**

1. Meet the team

2. Looked at the data/images for analysis

***To- Do:***

1. Learn more about image analysis

2. Share any resources that might be handy for each group member

3. Whether or not to create validation data set

4. How to create one?

March 13, 2018

1. Objectives of the project – (1) Low prediction error rate (2) Low training time

2. Project has two stages: (1) Feature Extraction (2) Classification model

3. Under Feature Extraction:

* HOG
* PCA
* RGB
* HSV
* SIFT

Do suggest if you have any features in mind ( like SURF )

4. Classification

* Random Forest – **Rose**
* SVM- **Fangbing**
* XG Boost- **Anshuma**
* GBM- **Shirley**
* Adaboost- **Xiuruo**

!! Other methods that need to be studied – **LDA, Logistic, Neural**

5. Baseline – SIFT + GBM (Shirley)

6. To do:

Everybody learns about the different features, and study each classification method.

7. Next meeting on Saturday at 9 am in MUDD

**March 19**

1. Final model- SVM + HOG

2. Things to do:

* Update contribution statements – except Fangbing
* Main file (test and train is done!- Shirley & Fangbing) – Xiuruo, Xinrou
* Update Summary - Anshuma
* Presentation- Anshuma ( might need Shirley’s help!)
* Update the spreadsheet with model – Fangbing, Xiuruo, Xinrou

3. Presentation flow:

* Introduce the project with 2 objectives- accuracy rate increase and running time reduction
* Explain what GBM and SIFT is
* Accuracy rates and running time of each model
* Explain what SVM and HOG is
* Accuracy rate and running time of Test model (the one we get in class)