# Project Meeting Minutes

*The main purpose of the document is to capture all the work that has been done by the group and* ***not*** *to write down what was discussed in a single meeting. You should be meeting and/or working throughout the week*.

Date of meeting(s): **02/16/2023**

**02/21/2023**

**02/24/2023**

Group Number: **07**

Group members present (Name, ID):

* Mohmad. Faizal Kazi **0783366**
* Aleena Almeida **0788193**
* Pradeep Kumar Tomar **0789140**
* Akash Sharma **0785748**
* Jay Patel **0789561**

Specific Activities that were completed/worked on:

* List brief description of activities carried out **by group members.**

1. **Completed VGG-16 & Random Forest for Image data classification:** Akash (VGG-16) and Aleena (Random forest Model)
2. **EDA, ARIMA model & Random Forest:** Pradeep, Faizal, and Jay
3. Discussion on presentation for new week

Specific Output from work:

* Include a brief summary of any written work or any code developed.

**Akash and Aleena worked on R&D and performed the tasks below.**

1. Akash Developed a VGG-16 model for X-ray Image classification and rectified some code for class distribution.
2. Aleena developed a Random Forest model for X-ray Image classification.

**Pradeep, Faizal and Jay worked on identifying what model will be appropriate for forecasting time series data and EDA**

1. Working on ARIMA & Random Forest model for forecasting time series data.
2. Worked on Holt-winter model.
3. Visualizations made on Tableau

On Target:

* Indicate the current status of your project:
  + \_\_\_\_\_ **green**: everything on track for completion by due date
  + \_\_\_\_\_ yellow: a small number of tasks are off track and completion by due date is at risk
  + \_\_\_\_\_ red: many tasks are off track and project will not be completed by due date

Challenges/Disagreements:

* List any challenges identified/discussed and possible solutions.
  + Trying to smoothen the visualizations done on ARIMA model. (Removed noise)
  + Similar problem running visualizations on Random Forest model, trying to improvise by removing noise.
  + Challenges faced for VGG-16 model as it’s taking a lot of time to execute as we had a lot of images.
  + Due to large number of images, memory issues occur and had to reshape the images for Random Forest model
* List any notable disagreements and subsequent discussion and resolution.
* The whole group will discuss on how would we be creating and presenting for the next week’s presentation.
* Disagreement was to split the images or keep a similar ratio. So finally we came to a conclusion for reshaping the images.

Planned Activities for coming week:

* List brief description of activities **by group member**
* Make sure tasks are assigned to address yellow and red flag items.
* **Akash and Aleena** will work on Random Forest Model, and work more on EDA as well.
* **Akash and Aleena** will work on their models (VGG-16, Random Forest) for various metrices such as Precision, F1 score, Recall.
* **Pradeep, Faizal and Jay** are going to work on the ARIMA & Random Forest, and will finalize any one model. We will also be working on the presentation file (PPT) which is due next week.