# 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): **02/07/2023**

**02/09/2023**

**02/10/2023**

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. **Data modelling for images dataset:** Akash and Aleena
2. **Data modelling for Forecasting:** Pradeep, Faizal, and Jay
3. **Assessment 2 :** Group work

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. Performed EDA and R&D on image dataset.
2. Developed a deep learning model such as a CNN, that can be used to analyze the image dataset.

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

1. Developed a ARIMA model for forecasting time series data.
2. Performed EDA.

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.
  + include tasks causing a yellow or red flag for your project.
* List any notable disagreements and subsequent discussion and resolution.
* **Data Quality:** The quality of the data, such as image resolution and contrast, can affect the results of the analysis. In some cases, the images may be of poor quality, making it difficult to extract meaningful information.
* **Image Interpretation:** Interpreting lung X-ray images is a complex task, even for experienced radiologists. It can be challenging to differentiate between COVID-19 related changes and other lung conditions that can cause similar changes in X-rays.
* **Class Imbalance:** The number of COVID-19 cases is much lower compared to the number of non-COVID cases, leading to class imbalance, which can affect the performance of machine learning models.

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, will work more on EDA as well.
* **Pradeep, Faizal and Jay** are going to study about timeseries forecasting, how other people are doing it. Understanding the correct way, which we have missed.