**Date**: 13th April, 2022

**Abraca-data**

**Weekly Report**

**Tasks performed in this week**

* Decided to take the best five features instead of the best 2 features in PCA.
* Started to understand the new dataset (Post PCA): Followed the same method as earlier: Performed Exploratory Data Analysis.
* For bivariate analysis: instead of the analysis between selective features we did the pair plot analysis.

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**Outcomes of the tasks performed**

* The reduced dimensionality was kept as 5 instead of 2 as it helped in understanding the data better while doing the exploratory data analysis.
* Pair Plots gave us an idea about the best set of features that explain the relationship between two variables. And hence if we want to draw a decision boundary this will help to form the most separated clusters.

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**Tasks to be performed in the upcoming week**

* We will start applying the machine learning models to the new dataset (the one in which the dimensions have been reduced).
* Further, we will compare the old results with the new ones.