**P-204 Air Quality forecasting(CO2 emissions)**

**Business Objective:**

**To forecast Co2 levels for an organization so that the organization can follow government norms with respect to Co2 emission levels.**

**Data Set Details:**

Time parameter and levels of Co2 emission

**Acceptance criteria:**

1. Detailed EDA (Visualization, missing value handling, outlier detection, skewness removal etc.)
2. Find the variables which are co related and consider building in your model and other feature engineering stuff if you can.
3. Pay attention to splitting of data.
4. Use your own understanding for identifying the algorithms that you need to use. However since it's mostly a forecasting problem use models associated with it.
5. Once model is finalized train it using whole data available
6. Use plot libraries to output the finding in each state
7. You can use Jupyter or any other notebook for the same or develop with desktop IDEs like Visual Studio
8. The project should be in working condition which is the most important thing even if we don’t use all the considerations as described above. Deploy it using any technique suitable.

**Milestones:**

30 days to complete the Project

|  |  |  |
| --- | --- | --- |
| **Milestone** | **Duration** | **Task start - End Date** |
| Kick off and Business Objective discussion | 1 day | 20/02/2023 |
| EDA | 1 Weeks – 1 ½ week | 27/02/2023 and 28/02/2023 |
| Model Building | 1 Week – 1 ½ week | 11/02/2023 |
| Model Evaluation | 1 ½ week |  |
| Feedback & Deployment | 06/03/2023 and 07/03/2023 |
| Final presentation | 1 day | 13/03/2023 and  14/03/2023 |

Protocols:

1. All participants should adhere to agreed timelines and timelines will not be extended
2. All the documentation – Final presentation and R/python code to be submitted before the final presentation day
3. All the participants must attend review meetings