Project Development Phase Sprint 2

Date	05 November 2022
Team ID	PNT2022TMID30209
Project Name	DEVELOPING A FLIGHT DELAY PREDICTION MODEL
	USING MACHINE LEARNING

Analysis and Prediction:

```
Data Analysis
    data.info()
 Output exceeds the size limit. Open the full output data in a text editor
RangeIndex: 11231 entries, 0 to 11230
 Data columns (total 25 columns):
                       Non-Null Count Dtype
                       11231 non-null int64
                        11231 non-null int64
 3 DAY_OF_MONTH
                       11231 non-null int64
 4 DAY_OF_WEEK
 5 UNIQUE_CARRIER
 6 TAIL_NUM
 7 FL_NUM
                        11231 non-null int64
 8 ORIGIN_AIRPORT_ID
                        11231 non-null object
 10 DEST_AIRPORT_ID
                        11231 non-null object
```

```
Handling Missing Values
    data.isnull().sum()
 YEAR
 QUARTER
 MONTH
 DAY_OF_MONTH
 DAY_OF_WEEK
 UNIQUE_CARRIER
 TAIL_NUM
 FL_NUM
 ORIGIN_AIRPORT_ID
 ORIGIN
 DEST_AIRPORT_ID
 CRS_DEP_TIME
 DEP_TIME
```

DEP_DELAY

```
pred_test = lor.predict(x_test)
pred_test

array([0, 0, 0, ..., 0, 0, 0], dtype=int64)

accuracy_score(pred_test, y_test)

0.9928793947485536
```

OUTPUT:

