

Project Flow

| | |
|--------------|---|
| Date | 20 November 2022 |
| Team ID | PNT2022TMID52214 |
| Project Name | Developing a Flight Delay Prediction Using Machine Learning |

Data Collection

Flight Data : The Flight Dataset from 2013.

- FLIGHT_NUMBER
- YEAR
- MONTH
- DAY
- SCH_DEPT
- DISTANCE
- ARRIVAL_DELAY
- AIRLINE
- ORIGIN
- DESTINATION
- DAY_OF_WEEK

Data Preprocessing

We preprocessing the dataset that is collected. Preprocessing includes:

- Import Required Libraries.
- Importing The Dataset.
- Analyze The Data.
- Handling Missing Values.
- Data Visualization.
- Dropping UN Necessary Columns.
- Label Encoding & One Hot Encoding.
- Splitting The Dataset Into Dependent And Independent Variables.
- Split The Dataset Into Train Set And Test Set.

- Train And Test The Model Using Decision Tree Classifier.
- Model Evaluation.

- Saving The Model . ➤

Model Building

- Training and testing the model ➤ Evaluation of Model

Application Building

- Create an HTML Code
- Build a Python Code