

Project Flow

Date	17 November 2022
Team ID	PNT2022TMID46686
Project Name	Developing a Flight Delay Prediction Using Machine Learning

Data Collection

Flight Data : The Flight Data from 2015, which is taken from the transportation statics. The Datasets contain following details.

- 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