Data Dictionary

	Feat	Description
	unique_id	Total valid flight schedule with scheduled or estimated
	dep_number	The date the city pair departure
	flight_number	Flight number of the city pair
	dep_hub	Hub code of the city pair
	hubtype	Organization that handled the city pair
	hub_country	Country of the departure hub
	carrier	IATA code of the carrier
	op_carrier	Name of the operator/owner of flown in city pair
	dep_city	City of departure
	country	Geographic region
	continentgroup	Geographic region
	dep_state	Geographic region
	dep_country	Geographic region
	dep_lat	Geographic location
	dep_long	Geographic location
	equipmentgroup	Plane/train/bus/ship
	equipment	Plane/train/bus/ship
	operatorclass	Carrier
	operatorcode	Carrier
	scheduled_dep	Scheduled departure time of a flight
	actual_dep	Actual departure time of a flight
	dep_delay_minutes	Minutes delay of a flight
	dep_delay_groups	Groups of delay of a flight
	dep_delay_indicator	Indicator for a departure delay of a flight
	cancelled_yes	Flag for cancelled and scheduled
	cancellation_code	Reason for cancellation
	delayed_yes	Flag for delayed and scheduled
	delayed_minutes	Minutes delay of a flight
	delayed_groups	Groups of delay of a flight
	delayed_indicator	Indicator for a delay of a flight
	scheduled_arr	Scheduled arrival time of a flight
	actual_arr	Actual arrival time of a flight
	arr_delay_minutes	Minutes delay of a flight
	arr_delay_groups	Groups of delay of a flight
	arr_delay_indicator	Indicator for a arrival delay of a flight
	arr_hub	Hub code of the arrival
	arr_hub_country	Country of the arrival hub
	arr_city	City of the arrival
	arr_state	Geographic region
	arr_country	Geographic region
	arr_lat	Geographic location
	arr_long	Geographic location
	scheduled_elapsed_time	Scheduled elapsed time
	actual_elapsed_time	Actual elapsed time
	distance	Distance between two airports
	distance_groups	Groups of distance
	carrier_delay	Minutes delay caused by carrier
	weather_delay	Minutes delay caused by weather
	nas_delay	Minutes delay caused by nas
	security_delay	Minutes delay caused by security
	late_aircraft_delay	Minutes delay caused by late aircraft
	year	The year of the flight
	month	The month of the flight
	day	The day of the flight
	quarter	The quarter of the flight
	day_of_week	The day of the week of the flight
	day_of_month	The day of the month of the flight
	week_of_year	The week of the year
	month_name	The month name
	quarter_name	The quarter name
	day_name	The day name
	dep_hour	The hour of the flight
	dep_minute	The minute of the flight
	dep_time_hm	The time of the flight
	dep_time_hms	The time of the flight
	dep_time_bins	Time bins of the flight
	dep_time_bins_hourly	Hourly time bins of the flight
	dep_time_bins_half_hourly	Half hourly time bins of the flight
	dep_time_bins_quarter_hourly	Quarter hourly time bins of the flight
	dep_time_bins_ten_minutes	Ten minutes time bins of the flight
	dep_time_bins_five_minutes	Five minutes time bins of the flight
	dep_time_bins_one_minute	One minute time bins of the flight
	dep_time_bins_ten_seconds	Ten seconds time bins of the flight
	dep_time_bins_one_second	One second time bins of the flight

Import Libraries

```
!pip install -q -U
!pip install -q -U keras-nlp
!pip install -q -U keras-tuner
import numpy as np
import pandas as pd
import os
import sklearn
import sklearn.preprocessing
from sklearn.model_selection import train_test_split, StratifiedKFold
from sklearn.metrics import mean_absolute_error, mean_squared_error, mean_squared_log_error, r2_score, roc_auc_score, f1_score, precision_score, recall_score, accuracy_score, roc_curve, precision_recall_curve, confusion_matrix, classification_report
from sklearn.ensemble import RandomForestRegressor, RandomForestClassifier, GradientBoostingRegressor, GradientBoostingClassifier, AdaBoostRegressor, AdaBoostClassifier, ExtraTreesRegressor, ExtraTreesClassifier, VotingRegressor, VotingClassifier, StackingRegressor, StackingClassifier
from sklearn.linear import LinearRegression, LogisticRegression, Ridge, Lasso, ElasticNet
from sklearn.tree import DecisionTreeRegressor, DecisionTreeClassifier
from sklearn.neighbors import KNeighborsRegressor, KNeighborsClassifier
from sklearn.svm import SVR, SVC, LinearSVR, LinearSVC
from sklearn.preprocessing import StandardScaler, MinMaxScaler, RobustScaler, LabelEncoder, OrdinalEncoder, OneHotEncoder, PolynomialFeatures
from sklearn.pipeline import Pipeline, FeatureUnion
from sklearn.base import BaseEstimator, TransformerMixin
import sklearn.metrics as sklearn_metrics
import sklearn.model_selection as sklearn_model_selection
import sklearn.preprocessing as sklearn_preprocessing
import sklearn.base as sklearn_base
import sklearn.ensemble as sklearn_ensemble
import sklearn.linear_model as sklearn_linear_model
import sklearn.tree as sklearn_tree
import sklearn.neighbors as sklearn_neighbors
import sklearn.svm as sklearn_svm
import sklearn.pipeline as sklearn_pipeline
import sklearn.base as sklearn_base
import sklearn.feature_selection as sklearn_feature_selection
```

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