YEAR

QUARTER

MONTH

DAY\_OF\_MONTH

DAY\_OF\_WEEK FL\_DATE

OP\_UNIQUE\_CARRIER: Unique Carrier Code. When the same code has been used by multiple carriers eg: 9E = Endeavor Air Inc. , AA = American Airlines Inc.

TAIL\_NUM : Tail Number

OP\_CARRIER\_FL\_NUM : Flight Number

ORIGIN\_AIRPORT\_ID : Origin Airport, Airport ID. An identification number assigned by US DOT to identify a unique airport.

ORIGIN : Origin Airport eg : JFK, DEN

ORIGIN\_STATE\_NM: : State Name

DEST\_AIRPORT\_ID: Destination Airport, Airport ID. An identification number assigned by US DOT to identify a unique airport

DEST\_AIRPORT\_SEQ\_ID: Destination Airport, Airport Sequence ID. An identification number assigned by US DOT to identify a unique airport at a given point of time

DEST : Destination Airport

DEST\_STATE\_NM : State Name

CRS\_DEP\_TIME : CRS Departure Time , scheduled dep time

DEP\_TIME: Actual Departure Time

DEP\_DELAY: Difference in minutes between scheduled and actual departure time

DEP\_DEL15 : Departure Delay Indicator, 15 Minutes or More (1=Yes)

TAXI\_OUT: Taxi Out Time, in Minutes

CRS\_ARR\_TIME : scheduled arr time

ARR\_DELAY: Actual arr time

ARR\_DELAY\_NEW: if arrived early then 0 else actual delay time

CANCELLED : yes = 1, No = 0

CANCELLATION\_CODE:

|  |  |  |
| --- | --- | --- |
| A | Carrier |  |
| B | Weather |  |
| C | National Air System | |
| D | Security |  |

DIVERTED : yes = 1 , No = 0

CRS\_ELAPSED\_TIME: scheduled Elapsed Time of Flight, in Minutes

ACTUAL\_ELAPSED\_TIME: Actusl Elapsed Time of Flight, in Minutes

AIR\_TIME: Flight Time, in Minutes

DISTANCE: Distance between airports (miles)

CARRIER\_DELAY: Carrier Delay, in Minutes (lot of NaN values)

WEATHER\_DELAY: in Minutes (lot of NaN values)

NAS\_DELAY: National Air System Delay, in Minutes (lot of NaN values)

SECURITY\_DELAY: Security Delay, in Minutes (lot of NaN values)

LATE\_AIRCRAFT\_DELAY FIRST\_DEP\_TIME: Late Aircraft Delay, in Minutes (lot of NaN values)

DIV\_ARR\_DELAY:   
Difference in minutes between scheduled and actual arrival time for a diverted flight reaching scheduled destination. The ArrDelay column remains NULL for all diverted flights

Target: if flight is delayed yes = 1, No = 0

departure\_datetime : flights departure time

departure\_resample15: flights departure time round off to nearest 15min intervals for merging flights data with weather data

resample15 : weather time round off to nearest 15min for merging flights data

station: three or four character site identifier

valid: timestamp of the observation

tmpf: Air Temperature in Fahrenheit, typically @ 2 meters

dwpf: Dew Point Temperature in Fahrenheit, typically @ 2 meters

relh: Relative Humidity in %

drct: Wind Direction in degrees from \*true\* north

sknt: Wind Speed in knots

p01i: One hour precipitation for the period from the observation time to the time of the previous hourly precipitation reset. This varies slightly by site. Values are in inches. This value may or may not contain frozen precipitation melted by some device on the sensor or estimated by some other means. Unfortunately, we do not know of an authoritative database denoting which station has which sensor.

alti: Pressure altimeter in inches

mslp: Sea Level Pressure in millibar

vsby: Visibility in miles

skyc1: Sky Level 1 Coverage

skyl1: Sky Level 1 Altitude in feet

feel: Apparent Temperature (Wind Chill or Heat Index) in Fahrenheit