

## Anomaly Detection and Outlier Analysis

In this project, you will attempt to detect anomalous observations and outliers in the following dataset:

- the RITA dataset (Reporting Carrier On-Time Performance), 1987-2019

**Datasets:** *Flights1\_2019\_1.csv*

### Tasks:

1. Explore and visualize the dataset.
2. Do any observations appear to be anomalous or outlying? Justify your answer.
3. If necessary, reduce the dimension of the dataset prior to analysis.
4. Using at least 4 anomaly detection algorithms seen in class, identify anomalous observations in the dataset.
5. Can you validate the results?

**Hints/Suggestions:** this project will require a fair amount of independent learning. Do not hesitate to ask me questions as needed.