**Tableau: Visualizing Citibike Trips**

Welcome to Visualizing Citibike Trips with Tableau! This is a project-based course which should take approximately 40 minutes to complete. Before diving into the project, please take a look at the course objectives and structure:

**Course Objectives**

In this course, we are going to focus primarily on two learning objectives:

1. Learn to create data visualizations with Tableau.
2. Be able to publish various visualizations into one dashboard.

**Course Structure**

This course is divided into 4 parts:

1. Course Overview: This introductory reading material.
2. Tableau Citibike Trips: This is the hands on project that we will work on in Rhyme.
3. Ungraded Quiz: Check your understanding of the concepts learned in the hands on project with this ungraded quiz.
4. Graded Quiz: This is the final assignment that you need to pass in order to finish the course successfully.

**Project Structure**

The hands on project is divided into following tasks:

**Task 1: Introduction**

* What is Tableau Public?
* A look at what we will create in the project.

**Task 2: Importing the Data**

* Importing the Citbike trips data.
* Measures and dimensions.
* Worksheets in Tableau.

**Task 3: Most Popular End Stations**

* Overview of Citibike dataset.
* Plot most popular end stations.
* Using filters in Tableau.

**Task 4: Most Popular Start Stations**

* Plot most popular start stations.
* Adding more filters.

**Task 5: Average Trip Duration**

* How to change measures.
* Looking at distribution of different dimensions.

**Task 6: Distribution of Common End Stations on Popular Start Stations**

* Plotting start stations.
* Using filters to limit start stations plot to most popular stations.
* Using filters to look at the distribution of most common end stations on the previously plotted popular start stations.

**Task 7: Start and Stop Times**

* Looking at the distribution of number of trip starts for each hour of the day.
* Looking at the distribution of number of trip stops for each hour of the day.
* Segmenting the plots for user types.

**Task 8: Creating a Dashboard**

* Adding all sheets to create one dashboard.
* Saving and publishing.

**Meet the Instructor**

Amit Yadav is a Machine Learning Engineer with a focus in creating deep learning based computer vision and signal processing products. Amit has led chat-bot development for a large corporation in the past. Amit is one of the Machine Learning and Data Science instructors at Rhyme.