**Introduction**

Velo is Antwerp’s most widely used bike sharing service. Currently, they are facing issues redistributing their bikes around the city to meet the demand of their users. To be more specific, the bike stand infront of the Antwerp main train station doesn't meet to demand. As a data scientist, you are been tasked to forcast/predict the bike usage 3 days into the future. This will help redistribute the bikes to where it is most needed, thereby generating more revenue and keeping clients happy.

**Data sources**

In the data folder you will find the following - Bike.csv: Since the real data has sensitive information, you are provided with the Bike.csv open source data set to show proof of concept. This dataset contains the hourly and daily count of rental bikes between the years 2011 and 2012 in the Capital bike share system with the corresponding weather and seasonal information. - Scoring dataset (bike\_scoring.csv) which consists of predictor values for the next 3 days. - Expected counts (bike\_target.csv) of the next 3 days

**Assignment**

By using any modeling technique of your choice, train a model that can forcast/predict as accurately as possible, the number of bike rentals 3 days into the future.

**Expectations**

Setup a working environment that is reproducable. - Explore the data source and explain useful insights. - Select and train the model(s) and explain the reason for your selection. - Evaluate the model and explain if the model is doing good. - Use your final model to forcast the bike rental counts for the next three days. - The scoring dataset maybe use for this purpose depending on your modeling technique - As a bonus, productionalised your final model by implementing API endpoint using either Flask or FastAPI.

Deliverables - GitHub repository with well documented codes - Presentation slides