**RESEARCH PROPOSAL**

The research topic our team has chosen is predicting bike sharing demand in cities. In large cities where traffic is high and distance between destinations is short, bike sharing has become an alternative form of transportation. Bike sharing is being able to rent a bike at set locations with no need to return them to the original bike rack as there are multiple locations across a city that you can return them to. The data is provided from kaggle and has 10,886 observations with 12 variables total which comprises the dependent variable (i.e count of bikes) and independent variables which includes temperature, time, weather, day of the week, and so on. The dataset is called ‘Bike Sharing Demand’ and is linked here: <https://www.kaggle.com/competitions/bike-sharing-demand/data>.

**Research Questions - S- Specific, M- Measurable, A- Achievable, R- Relevant and**

**T-  Time Bound**

Some **SMART** questions we are interested in answering are:

1. Which variable has the highest effect on the count of the number of bikes used in a day?
2. When do non-registered bikers increase the most?
3. Are people willing to bike in bad weather conditions?
4. How does temperature affect the number of bikes in use?

**GitHub Repository**

Here is the link to our Github repository: <https://github.com/Modupeolawuraola/Group-Project-DAT-6101>

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