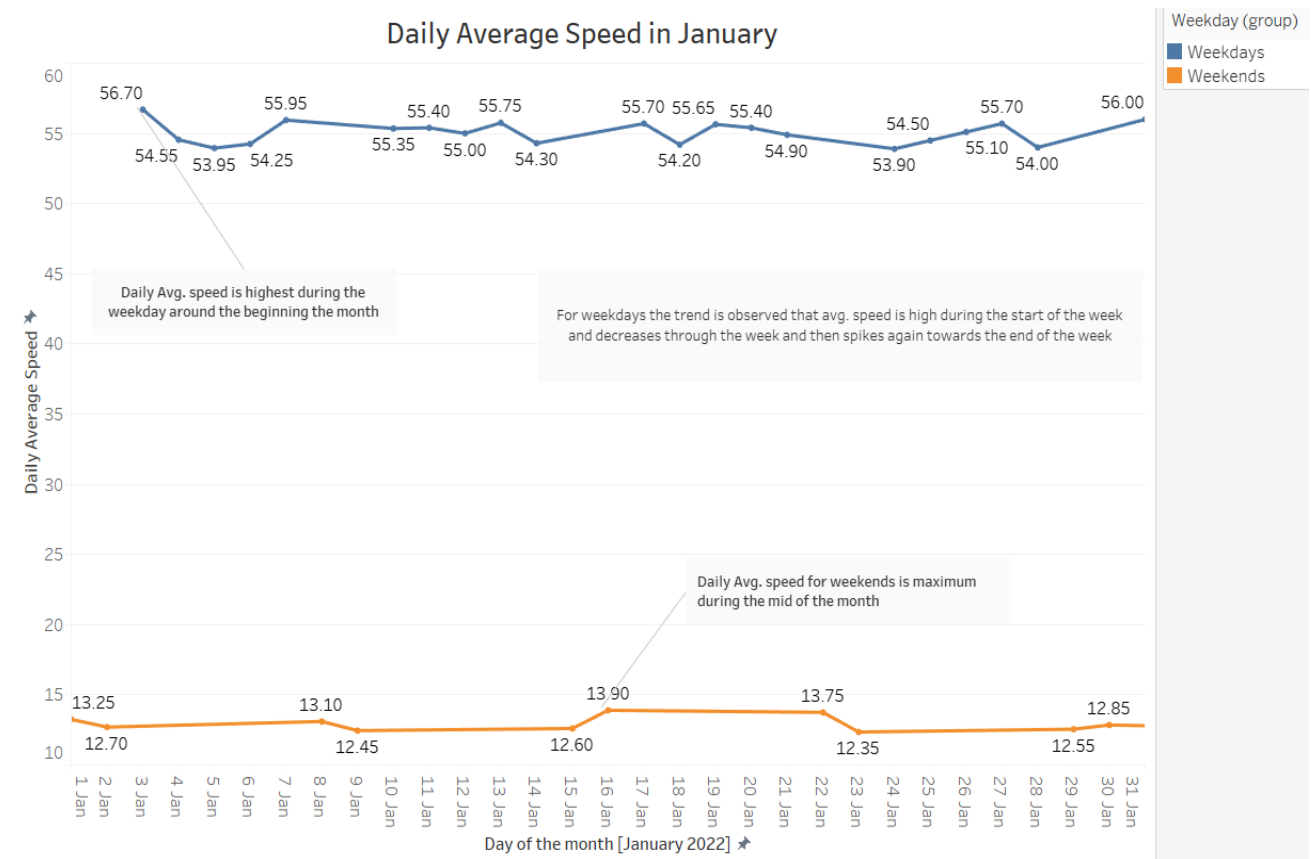


## Exploratory Data Analysis and Visualization

### Calculating the Average Daily Speed

The following chart shows the daily average speed varying over time of a month (January).

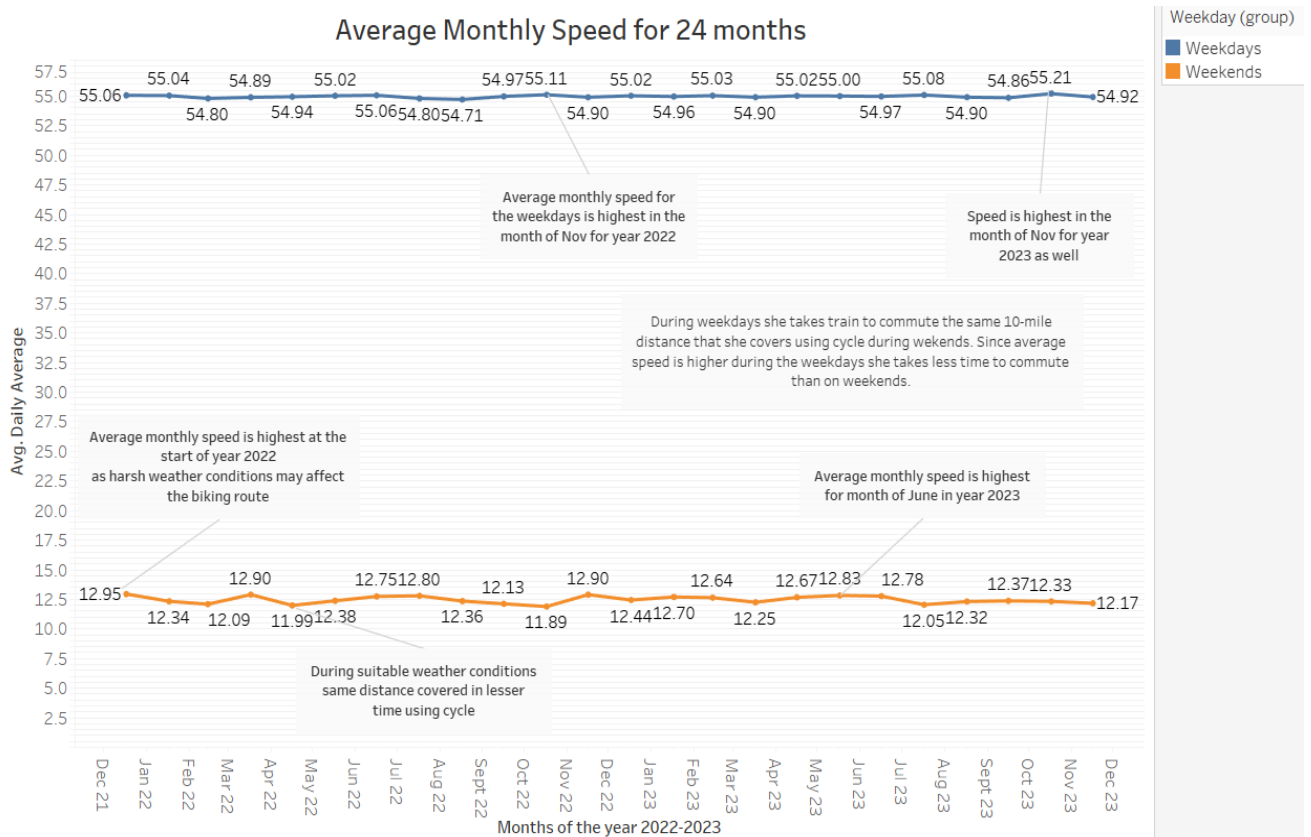


### Pointers:

- She travels during the weekday on a train
- During the weekends she travels using a cycle
- Depending on weather conditions, the average speed varies as the distance to be travelled is the same (10 miles) on train and cycle.

## Average Monthly Speed

This chart helps visualize the average monthly speed for the 24-month period.

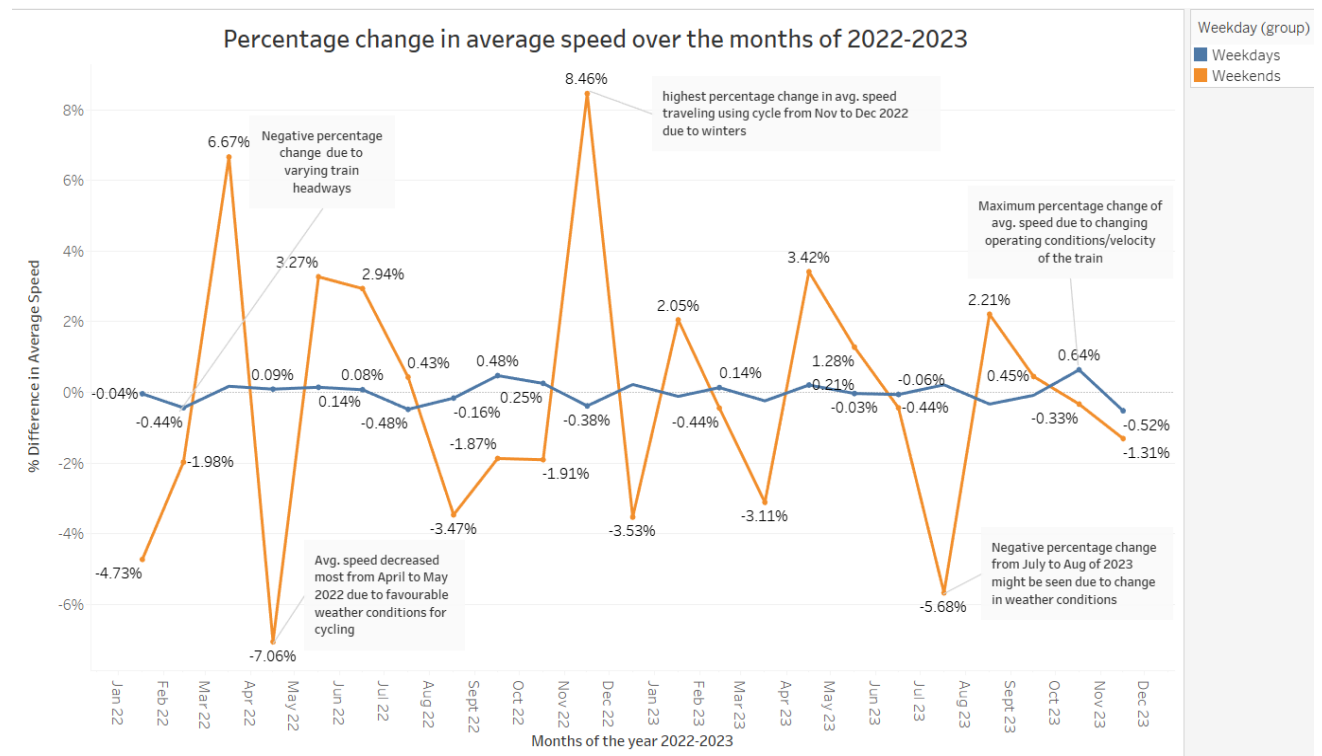


### Pointers:

- Average monthly speed is more for the weekdays when she uses the train.
- Average monthly speed is lesser for weekends when she uses a cycle.
- Same distance travelled in less time during the weekends as average speed is more as compared to weekdays.

## Percentage Change Analysis

This chart shows the percentage change in average speed from month to month.



### Pointers:

- The percentage change is greater on the weekends than on weekdays.
- Positive percentage depicts there has been an increase in the average speed from the previous month.
- Negative percentage depicts a decreased average speed from the previous month.