# Exploratory Data analysis on Daily Public Transport Passenger Boardings By Ticket Type

### Information about the dataset

## Filtered dataset for 1 year (2023-04-01 to 2024-04-30)

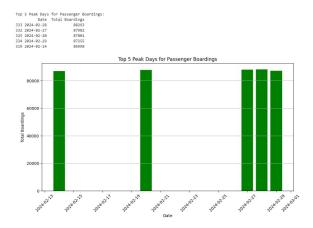
```
Data for the period from 1st April 2023 to 30th April 2024:
        Date MyWay Paper Ticket
0 2023-04-01 23147
1 2023-04-02 17043
                           6507
2 2023-04-03 63842
3 2023-04-04 68322
                           6687
4 2023-04-05 67852
391 2024-04-26 49214
392 2024-04-27 24302
393 2024-04-28 18294
                          2521
394 2024-04-29 57028
395 2024-04-30 74119
[396 rows x 3 columns]
```

## **Determining outliers using IQR**

```
Interquartile Range (IQR): 36225.75
Lower Bound for Outliers: -36300.125
Upper Bound for Outliers: 108602.875
Outliers:
Empty DataFrame
Columns: [Date, MyWay, Paper Ticket]
Index: []
```

There is no outliers in the Filtered\_dataset.

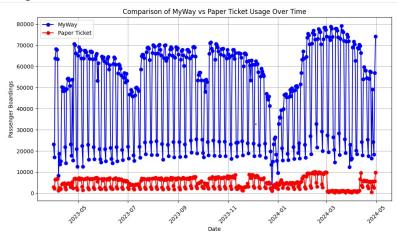
### **TOP 5** peak days in the year:



The peak days are not in week ends, they are in week days.

MyWay consistently outperforms paper tickets in terms of popularity. Its average usage surpasses that of paper tickets consistently across the entire timeframe depicted in the graph.

• Both MyWay and paper ticket usage exhibit fluctuations over time, with noticeable peaks and valleys occurring throughout the weeks.



MyWay emerges as the predominant ticket type, evident from the tallest bar on the graph corresponding to its frequency.

- Although MyWay dominates, paper tickets retain significance, as indicated by the second-tallest bar.
- The data underscores MyWay's preference, yet acknowledges the continued usage of traditional paper tickets.

