Sunday 23-02-2025

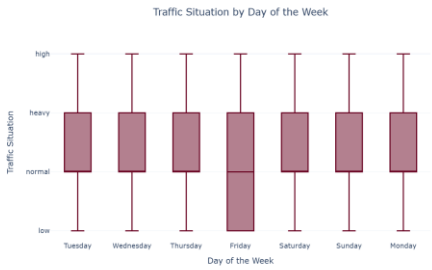
Assignment: Traffic Analysis Project

Dear Trainees,

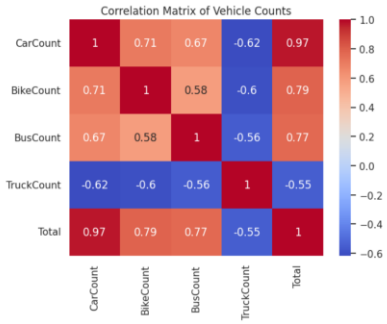
As part of our internship program, I am assigning you a task to help solidify your understanding of the concepts we have covered in our sessions, I am assigning a practical task to help you apply what you have learned.

Tasks: Use Python's libraries (Matplotlib, Seaborn) to create visual representations of the data and answer the following questions:

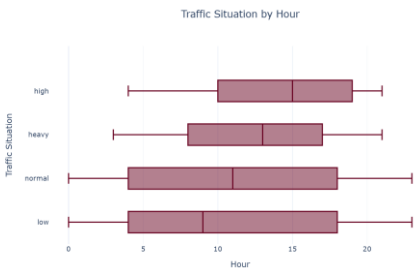
10. How does traffic situation distribution vary by day of the week?



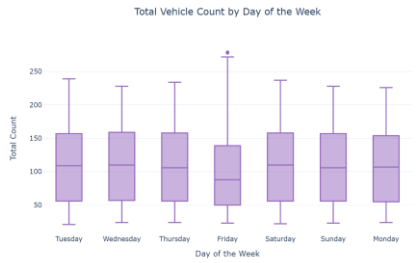
11. What are the correlations between different vehicle types?



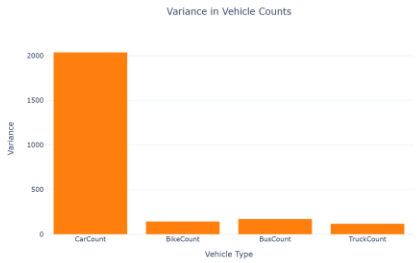
12. How does the distribution of traffic situations differ by hour?



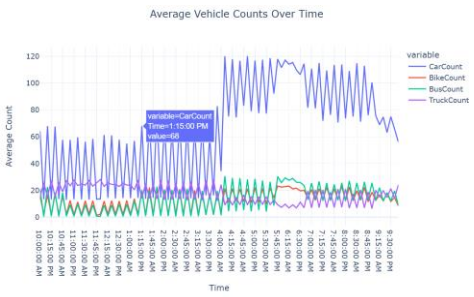
13. What is the distribution of total vehicle counts for each day of the week?



14. How does the variance in vehicle counts compare across vehicle types?



15. How does the average vehicle count for each type change over time?



Deliverables:

A well-documented Python notebook (**.ipynb**) containing:

- Code for data visualization
- Extract the insight after each visualization. (as markdown)
- Submit task via GitHub.

Submit your assignment by **Thursday 27/02/2025 Until 10:00AM**

Additional Notes:

- If you have any questions or need clarification, feel free to reach out to me.
- This assignment is an opportunity to practice and apply your knowledge, so make the most of it.

Best regards,

DS. Tariq