CityPulse: Urban Traffic & Pollution Dashboard

"Analyzing traffic patterns and air quality across simulated smart cities"

Brief Description:

Explore how traffic congestion and air pollution intersect across six futuristic cities.

This dashboard reveals hourly trends, city-wise AQI breakdowns, and time-of-day correlations.

Use filters to dive into specific cities, days, or pollution categories.

Creator Info:

Made by Sharmita Rani

LinkedIn: Sharmita Rani

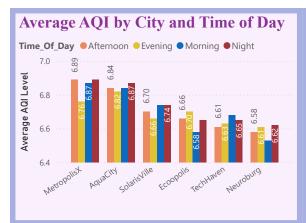
Github: sharmitaranii

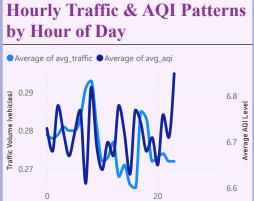
Tools Used:

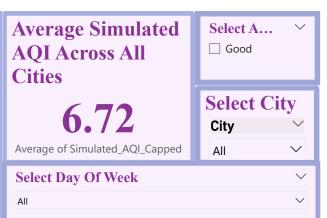
Power BI, Python, SQL

Date:

June2025









Key Insights

- Neuroburg has the cleanest air across all time slots.
 MetropolisX shows the highest AQI spikes, especially at night.
- Traffic congestion peaks between 8 AM and 6 PM, correlating with minor AQI rises.
- · AQI remains mostly in the "Good" range for all cities indicating efficient air management.

AQI & Traffic by City and Time						
City	Day Of Week	AQI_Category	Sum of Simulated_A QI_Capped	Time_Of_Day	Sum of Traffic_Density_ Capped ▼	•
MetropolisX	Saturday	Good	67459	Night	4,512.33	
AquaCity	Sunday	Good	67695	Night	4,478.34	
AquaCity	Friday	Good	69039	Night	4,461.91	
AquaCity	Saturday	Good	67440	Night	4,433.08	
AquaCity	Wednesday	Good	65050	Night	4,413.63	
Total			8190825		3,37,912.85	U