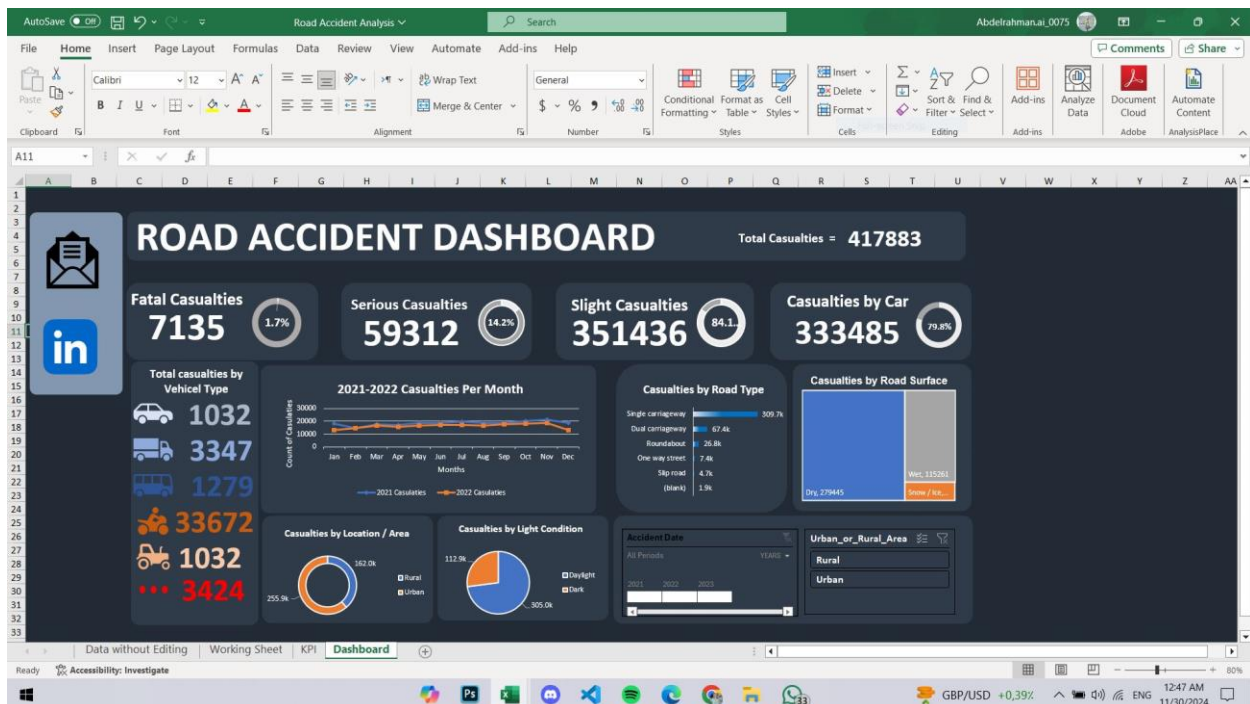


# ROAD ACCIDENT DASHBOARD

This project focused on developing an interactive dashboard to analyze and visualize road accident data effectively. The work involved extensive data cleaning and preparation to ensure accuracy and consistency. Pivot tables were utilized to summarize and categorize the data, while new features were created to highlight key insights. Relationships between various features were established to make the data more intuitive and accessible. The final dashboard provides a clear, comprehensive view of accident trends, patterns, and contributing factors, supporting better understanding and informed decision-making.



Let me know if you need any modifications!

## I do four sheets in this excel file:

- The first sheet has the real data without any cleaning or modification.
- The second sheet has the data after the preparation and make new feature in this data and Correct spelling errors in the data.
- The third sheet has many of pivot table that I do to make relationships between different columns to make the data more clear and more understandable.
- The fourth sheet in this sheet I do data visualization and many tools to make the data More clear and can help you to answer any questions about the data with easily.

# The data without any preparation:

A	B	C	D	E	F	G	H	I	J	K	L	M
Accident Index	Accident Date	Day of Week	Junction Control	Junction Detail	Accident Severity	Latitude	Light Conditions	Local Authority (District)	Carriageway Hazards	Longitude	Number of Casualties	Number of Vehi
2009018570001	1/1/2021	Thursday	Give way or uncontrolled	T or staggered junction	Serious	51.512273	Daylight	Kensington and Chelsea	None	-0.201349	1	
2009018570002	1/5/2021	Monday	Give way or uncontrolled	Crossroads	Serious	51.514399	Daylight	Kensington and Chelsea	None	-0.199248	1	
2009018570003	1/4/2021	Sunday	Give way or uncontrolled	T or staggered junction	Slight	51.486661	Daylight	Kensington and Chelsea	None	-0.179599	1	
2009018570004	1/5/2021	Monday	Auto traffic signal	T or staggered junction	Serious	51.507804	Daylight	Kensington and Chelsea	None	-0.203111	1	
2009018570005	1/6/2021	Tuesday	Auto traffic signal	Crossroads	Serious	51.482076	Darkness - lights lit	Kensington and Chelsea	None	-0.173445	1	
2009018570006	1/7/2021	Wednesday	Give way or uncontrolled	T or staggered junction	Slight	51.493415	Daylight	Kensington and Chelsea	None	-0.185526	3	
2009018570007	1/8/2021	Thursday	Give way or uncontrolled	T or staggered junction	Serious	51.480177	Daylight	Kensington and Chelsea	None	-0.178561	1	
2009018570008	1/12/2021	Friday	Auto traffic signal	Crossroads	Slight	51.491957	Daylight	Kensington and Chelsea	None	-0.178524	1	
2009018570009	1/7/2021	Wednesday	Give way or uncontrolled	T or staggered junction	Slight	51.49646	Daylight	Kensington and Chelsea	None	-0.167395	2	
2009018570010	1/10/2021	Saturday	Auto traffic signal	Crossroads	Slight	51.48115	Daylight	Kensington and Chelsea	None	-0.183275	1	
2009018570011	1/7/2021	Wednesday	Auto traffic signal	Crossroads	Slight	51.482076	Darkness - lights lit	Kensington and Chelsea	None	-0.173445	1	
2009018570012	1/16/2021	Friday	Auto traffic signal	Crossroads	Slight	51.494955	Darkness - lights lit	Kensington and Chelsea	None	-0.183018	1	
2009018570013	1/12/2021	Monday	Data missing or out of range	Not at junction or within 20 metres	Slight	51.498778	Daylight	Kensington and Chelsea	None	-0.206779	1	
2009018570016	1/9/2021	Friday	Give way or uncontrolled	T or staggered junction	Slight	51.506187	Daylight	Kensington and Chelsea	None	-0.209882	1	
2009018570017	1/17/2021	Saturday	Give way or uncontrolled	T or staggered junction	Slight	51.493077	Daylight	Kensington and Chelsea	None	-0.169548	1	
2009018570019	1/25/2021	Sunday	Auto traffic signal	Crossroads	Serious	51.482076	Darkness - lights lit	Kensington and Chelsea	None	-0.173445	1	
2009018570020	1/26/2021	Monday	Give way or uncontrolled	Crossroads	Slight	51.488673	Darkness - lights lit	Kensington and Chelsea	None	-0.16974	1	
2009018570021	1/26/2021	Monday	Data missing or out of range	Not at junction or within 20 metres	Slight	51.482363	Darkness - lights lit	Kensington and Chelsea	None	-0.186106	1	
2009018570023	1/19/2021	Monday	Give way or uncontrolled	T or staggered junction	Slight	51.49391	Daylight	Kensington and Chelsea	None	-0.178661	1	
2009018570024	1/27/2021	Tuesday	Data missing or out of range	Not at junction or within 20 metres	Slight	51.509396	Darkness - lights lit	Kensington and Chelsea	None	-0.194837	1	
2009018570025	1/23/2021	Wednesday	Give way or uncontrolled	T or staggered junction	Slight	51.50228	Darkness - lights lit	Kensington and Chelsea	None	-0.188918	1	
2009018570026	1/22/2021	Thursday	Give way or uncontrolled	T or staggered junction	Slight	51.507588	Darkness - lights lit	Kensington and Chelsea	None	-0.194905	1	
2009018570027	1/31/2021	Saturday	Auto traffic signal	Crossroads	Serious	51.488585	Daylight	Kensington and Chelsea	None	-0.193063	2	
2009018570028	2/3/2021	Tuesday	Give way or uncontrolled	T or staggered junction	Slight	51.518344	Daylight	Kensington and Chelsea	None	-0.217295	1	
2009018570030	1/3/2021	Saturday	Give way or uncontrolled	T or staggered junction	Slight	51.499201	Darkness - lights lit	Kensington and Chelsea	None	-0.168494	2	
2009018570031	1/31/2021	Saturday	Give way or uncontrolled	T or staggered junction	Serious	51.517061	Daylight	Kensington and Chelsea	None	-0.204042	2	
2009018570032	1/29/2021	Thursday	Auto traffic signal	Crossroads	Slight	51.48944	Daylight	Kensington and Chelsea	None	-0.190148	1	
2009018570033	1/31/2021	Saturday	Give way or uncontrolled	Crossroads	Slight	51.494521	Daylight	Kensington and Chelsea	None	-0.158397	1	
2009018570035	1/29/2021	Thursday	Auto traffic signal	Crossroads	Slight	51.508248	Daylight	Kensington and Chelsea	None	-0.201729	1	
2009018570036	1/31/2021	Saturday	Auto traffic signal	Crossroads	Slight	51.491173	Darkness - lights lit	Kensington and Chelsea	None	-0.18014	1	
2009018570037	1/28/2021	Wednesday	Give way or uncontrolled	T or staggered junction	Slight	51.495478	Daylight	Kensington and Chelsea	None	-0.202731	1	
2009018570039	1/28/2021	Wednesday	Give way or uncontrolled	Crossroads	Serious	51.494586	Daylight	Kensington and Chelsea	None	-0.173652	1	
2009018570040	1/31/2021	Saturday	Give way or uncontrolled	T or staggered junction	Slight	51.499727	Daylight	Kensington and Chelsea	None	-0.165518	1	
2009018570041	1/22/2021	Thursday	Give way or uncontrolled	T or staggered junction	Slight	51.507802	Darkness - lights lit	Kensington and Chelsea	None	-0.202366	1	
2009018570042	1/29/2021	Thursday	Auto traffic signal	T or staggered junction	Slight	51.508972	Darkness - lights lit	Kensington and Chelsea	None	-0.197136	1	
2009018570043	1/20/2021	Tuesday	Auto traffic signal	T or staggered junction	Slight	51.513036	Daylight	Kensington and Chelsea	None	-0.202351	1	
2009018570044	1/17/2021	Saturday	Give way or uncontrolled	Crossroads	Slight	51.512443	Daylight	Kensington and Chelsea	None	-0.206531	1	
2009018570045	1/15/2021	Thursday	Give way or uncontrolled	T or staggered junction	Serious	51.491908	Daylight	Kensington and Chelsea	None	-0.192787	1	

# The data after the preparation and cleaning:

A	B	C	D	E	F	G	H	I	J	K	L
Accident Index	Accident Date	Month	Year	Day of Week	Junction Control	Junction Detail	Accident Severity	Latitude	Light Conditions	Local Authority (District)	Carriageway Hazards
2009018570001	1/1/2021	Jan	2021	Thursday	Give way or uncontrolled	T or staggered junction	Serious	51.51227	Daylight	Kensington and Chelsea	None
2009018570002	1/5/2021	Jan	2021	Monday	Give way or uncontrolled	Crossroads	Serious	51.5144	Daylight	Kensington and Chelsea	None
2009018570003	1/4/2021	Jan	2021	Sunday	Give way or uncontrolled	T or staggered junction	Slight	51.48667	Daylight	Kensington and Chelsea	None
2009018570004	1/5/2021	Jan	2021	Monday	Auto traffic signal	T or staggered junction	Serious	51.5078	Daylight	Kensington and Chelsea	None
2009018570005	1/6/2021	Jan	2021	Tuesday	Auto traffic signal	Crossroads	Serious	51.48208	Darkness - lights lit	Kensington and Chelsea	None
2009018570006	1/7/2021	Jan	2021	Thursday	Give way or uncontrolled	T or staggered junction	Slight	51.49342	Daylight	Kensington and Chelsea	None
2009018570007	1/8/2021	Jan	2021	Thursday	Give way or uncontrolled	T or staggered junction	Serious	51.48018	Daylight	Kensington and Chelsea	None
2009018570008	1/7/2021	Jan	2021	Friday	Auto traffic signal	Crossroads	Slight	51.49196	Daylight	Kensington and Chelsea	None
2009018570009	1/7/2021	Jan	2021	Wednesday	Give way or uncontrolled	T or staggered junction	Slight	51.49646	Daylight	Kensington and Chelsea	None
2009018570010	1/10/2021	Jan	2021	Saturday	Auto traffic signal	Crossroads	Slight	51.48115	Daylight	Kensington and Chelsea	None
2009018570011	1/7/2021	Jan	2021	Wednesday	Auto traffic signal	Crossroads	Slight	51.48208	Darkness - lights lit	Kensington and Chelsea	None
2009018570012	1/16/2021	Jan	2021	Friday	Auto traffic signal	Crossroads	Slight	51.495	Darkness - lights lit	Kensington and Chelsea	None
2009018570015	1/12/2021	Jan	2021	Monday	Data missing or out of range	Not at junction or within 20 metres	Slight	51.49878	Daylight	Kensington and Chelsea	None
2009018570016	1/9/2021	Jan	2021	Friday	Give way or uncontrolled	T or staggered junction	Slight	51.50619	Daylight	Kensington and Chelsea	None
2009018570017	1/17/2021	Jan	2021	Saturday	Give way or uncontrolled	T or staggered junction	Slight	51.49308	Daylight	Kensington and Chelsea	None
2009018570019	1/25/2021	Jan	2021	Sunday	Auto traffic signal	Crossroads	Serious	51.48208	Darkness - lights lit	Kensington and Chelsea	None
2009018570020	1/26/2021	Jan	2021	Monday	Give way or uncontrolled	Crossroads	Slight	51.48867	Darkness - lights lit	Kensington and Chelsea	None
2009018570021	1/26/2021	Jan	2021	Monday	Data missing or out of range	Not at junction or within 20 metres	Slight	51.48236	Darkness - lights lit	Kensington and Chelsea	None
2009018570023	1/19/2021	Jan	2021	Monday	Give way or uncontrolled	T or staggered junction	Slight	51.49391	Daylight	Kensington and Chelsea	None
2009018570024	1/27/2021	Jan	2021	Tuesday	Data missing or out of range	Not at junction or within 20 metres	Slight	51.5093	Darkness - lights lit	Kensington and Chelsea	None
2009018570025	1/21/2021	Jan	2021	Wednesday	Give way or uncontrolled	T or staggered junction	Slight	51.50228	Darkness - lights lit	Kensington and Chelsea	None
2009018570026	1/22/2021	Jan	2021	Thursday	Give way or uncontrolled	T or staggered junction	Slight	51.50759	Darkness - lights lit	Kensington and Chelsea	None
2009018570027	1/31/2021	Jan	2021	Saturday	Auto traffic signal	Crossroads	Serious	51.48859	Daylight	Kensington and Chelsea	None
2009018570028	2/3/2021	Feb	2021	Tuesday	Give way or uncontrolled	T or staggered junction	Slight	51.52834	Daylight	Kensington and Chelsea	None
2009018570030	1/31/2021	Jan	2021	Saturday	Give way or uncontrolled	T or staggered junction	Slight	51.4992	Darkness - lights lit	Kensington and Chelsea	None
2009018570031	1/31/2021	Jan	2021	Saturday	Give way or uncontrolled	T or staggered junction	Serious	51.51708	Daylight	Kensington and Chelsea	None
2009018570032	1/29/2021	Jan	2021	Thursday	Auto traffic signal	Crossroads	Slight	51.48944	Daylight	Kensington and Chelsea	None
2009018570033	1/31/2021	Jan	2021	Saturday	Give way or uncontrolled	Crossroads	Slight	51.49452	Daylight	Kensington and Chelsea	None
2009018570035	1/29/2021	Jan	2021	Thursday	Auto traffic signal	Crossroads	Slight	51.50862	Daylight	Kensington and Chelsea	None
2009018570036	1/31/2021	Jan	2021	Saturday	Auto traffic signal	Crossroads	Slight	51.49117	Darkness - lights lit	Kensington and Chelsea	None
2009018570037	1/20/2021	Jan	2021	Tuesday	Auto traffic signal	T or staggered junction	Slight	51.51304	Daylight	Kensington and Chelsea	None

