

# BMW Car Sales Analysis Report

## 1. Data Summary:

	count	mean	std	min	25%	50%	75%	max
Year	50000.0	2017.01570	4.324459	2010.0	2013.00	2017.0	2021.00	2024.0
Engine_Size_L	50000.0	3.24718	1.009078	1.5	2.40	3.2	4.10	5.0
Mileage_KM	50000.0	100307.20314	57941.509344	3.0	50178.00	100388.5	150630.25	199996.0
Price_USD	50000.0	75034.60090	25998.248882	30000.0	52434.75	75011.5	97628.25	119998.0
Sales_Volume	50000.0	5067.51468	2856.767125	100.0	2588.00	5087.0	7537.25	9999.0

## 2. Missing Values:

Model	0
Year	0
Region	0
Color	0
Fuel_Type	0
Transmission	0
Engine_Size_L	0
Mileage_KM	0
Price_USD	0
Sales_Volume	0
Sales_Classification	0

## 3. Correlation Matrix:

	Year	Engine_Size_L	Mileage_KM	Price_USD	Sales_Volume
Year	1.000000	-0.001944	0.008741	0.003547	0.001671
Engine_Size_L	-0.001944	1.000000	-0.004906	0.000146	-0.003942

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Mileage_KM	0.008741	-0.004906	1.000000	-0.004238	0.001434
Price_USD	0.003547	0.000146	-0.004238	1.000000	0.000080
Sales_Volume	0.001671	-0.003942	0.001434	0.000080	1.000000

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## 4. Correlation Heatmap:

