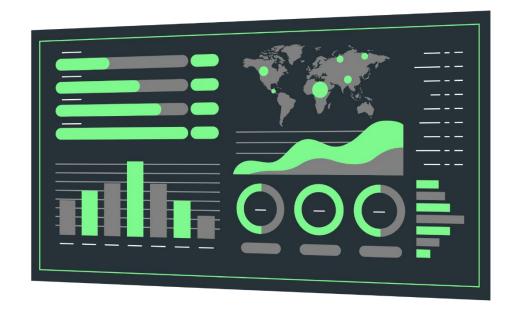
PrepInsta



Week 6
EDA
Using Python

Winter Internship

By Arijit Dhali

Week 6 Indian Cars EDA





Data Processing

Uncleaned

4	A B	C	D	E		F	G	Н	1	J	K	L		М	N	0	P	Q	R	S	T	U
1	Make	Model	Variant	Ex-Sh	owrel	Displacen	Cylinders	Valves_Pe	Drivetra	n Cylinde	r_(Emission	Engine	_Lc F	uel_Syst	Fuel_Tank	Fuel_Type	Height	Length	Width	Body_Typ	Doors	City_N
2	0 Tata	Nano Gen	Xt	Rs. 2,9	92,666	24 cc	2	2	RWD (Re	a In-line	BS IV	Rear, T	ran lı	njection	24 litres	Petrol	1652 mm	3164 mm	1750 mm	Hatchback		5 ?23.6
3	1 Tata	Nano Gen	Xe	Rs. 2,3	36,44	24 cc	2	2	RWD (Re	a In-line	BS IV	Rear, T	ran li	njection	24 litres	Petrol	1652 mm	3164 mm	1750 mm	Hatchback		5 ?23.6
4	2 Tata	Nano Gen	Emax Xm	Rs. 2,5	96,66	24 cc	2	2	RWD (Re	a In-line	BS IV	Rear, T	ran li	njection	15 litres	CNG	1652 mm	3164 mm	1750 mm	Hatchback		4
5	3 Tata	Nano Gen	Xta	Rs. 3,3	34,766	24 cc	2	2	RWD (Re	a In-line	BS IV	Rear, T	ran lı	njection	24 litres	Petrol	1652 mm	3164 mm	1750 mm	Hatchback		5 ?23.6
6	4 Tata	Nano Gen	Xm	Rs. 2,7	72,226	24 cc	2	2	RWD (Re	a In-line	BS IV	Rear, T	ran li	njection	24 litres	Petrol	1652 mm	3164 mm	1750 mm	Hatchback		5 ?23.6
7	5 Tata	Nano Gen	Xma	Rs. 3,1	14,816	24 cc	2	2	RWD (Re	a In-line	BS IV	Rear, T	ran lı	njection	24 litres	Petrol	1652 mm	3164 mm	1750 mm	Hatchback		5 ?23.6
8	6 Datsun	Redi-Go	D	Rs. 2,7	79,65	799 cc	3	4	FWD (Fre	or In-line	BS IV	Front,	Traili	njection	28 litres	Petrol	1541 mm	3429 mm	1560 mm	Hatchback		5 21.38
9	7 Datsun	Redi-Go	T	Rs. 3,5	51,83	799 cc	3	4	FWD (Fre	or In-line	BS IV	Front,	Traili	njection	28 litres	Petrol	1541 mm	3429 mm	1560 mm	Hatchback		5 21.38
10	8 Datsun	Redi-Go	Α	Rs. 3,3	33,41	799 cc	3	4	FWD (Fre	or In-line	BS IV	Front,	Traili	njection	28 litres	Petrol	1541 mm	3429 mm	1560 mm	Hatchback		5 21.38
11	9 Datsun	Redi-Go	S	Rs. 3,6	52,00	799 cc	3	4	FWD (Fre	or In-line	BS IV	Front,	Traili	njection	28 litres	Petrol	1541 mm	3429 mm	1560 mm	Hatchback		5 21.38
12	10 Datsun	Redi-Go	1.0 S	Rs. 3,9	90,00	999 cc	3	4	FWD (Fre	or In-line	BS IV	Front,	Traili	njection	28 litres	Petrol	1541 mm	3429 mm	1560 mm	Hatchback		5
13	11 Datsun	Redi-Go	1.0 S Amt	Rs. 4,3	37,069	99 cc	3	4	FWD (Fre	or In-line	BS IV	Front,	Traili	njection	28 litres	Petrol	1541 mm	3429 mm	1560 mm	Hatchback		5
14	12 Renault	Kwid	Rxe 0.8	Rs. 3,5	53,25	799 cc	3	4	FWD (Fre	or In-line	BS 6	Front,	Traili	njection	28 litres	Petrol	1490 mm	3731 mm	1579 mm	Hatchback		5 25.17
15	13 Renault	Kwid	Std 0.8	Rs. 2,8	33,29	799 cc	3	4	FWD (Fre	or In-line	BS 6	Front,	Traili	njection	28 litres	Petrol	1490 mm	3731 mm	1579 mm	Hatchback		5 25.17
16	14 Renault	Kwid	RxI 0.8	Rs. 3,8	33,25	799 cc	3	4	FWD (Fre	or In-line	BS 6	Front,	Traili	njection	28 litres	Petrol	1490 mm	3731 mm	1579 mm	Hatchback		5 25.17
17	15 Renault	Kwid	Rxt 0.8	Rs. 4,1	13,25	799 cc	3	4	FWD (Fre	or In-line	BS 6	Front,	Traili	njection	28 litres	Petrol	1490 mm	3731 mm	1580 mm	Hatchback		5 25.17
18	16 Renault	Kwid	Rxt 1.0	Rs. 4,3	33,255	999 cc	3	4	FWD (Fre	or In-line	BS 6	Front,	Traili	njection	28 litres	Petrol	1490 mm	3731 mm	1579 mm	Hatchback		5 25.17
19	17 Renault	Kwid	Climber 1	Rs. 4,5	54,499	999 cc	3	4	FWD (Fre	or In-line	BS 6	Front,	Traili	njection	28 litres	Petrol	1490 mm	3731 mm	1579 mm	Hatchback		5 25.17
20	18 Renault	Kwid	Rxt Amt 1	Rs. 4,6	53,299	999 cc	3	4	FWD (Fre	or In-line	BS 6	Front,	Traili	njection	28 litres	Petrol	1490 mm	3731 mm	1579 mm	Hatchback		5 25.17
21	19 Renault	Kwid	Climber A	Rs. 4,8	34,455	999 cc	3	4	FWD (Fre	or In-line	BS 6	Front,	Traili	njection	28 litres	Petrol	1490 mm	3731 mm	1579 mm	Hatchback		5 25.17
22	20 Renault	Kwid	Rxt (O) 1.0	Rs. 4,4	10,955	999 cc	3	4	FWD (Fre	or In-line	BS 6	Front,	Traili	njection	28 litres	Petrol	1490 mm	3731 mm	1579 mm	Hatchback		5 25.17
23	21 Renault	Kwid	Rxt (O) An	Rs. 4,7	70,955	99 сс	3	4	FWD (Fre	or In-line	BS 6	Front,	Traili	njection	28 litres	Petrol	1490 mm	3731 mm	1579 mm	Hatchback		5 25.17
24	22 Renault	Kwid	Climber (Rs. 4,6	52,199	99 сс	3	4	FWD (Fre	or In-line	BS 6	Front,	Traili	njection	28 litres	Petrol	1490 mm	3731 mm	1579 mm	Hatchback		5 25.17
25	23 Renault	Kwid	Climber (0	Rs. 4,9	2,199	999 cc	3	4	FWD (Fre	or In-line	BS 6	Front,	Traili	njection	28 litres	Petrol	1490 mm	3731 mm	1579 mm	Hatchback		5 25.17

Cleaned

4	Α	В	С	D	E	F	G	H	1	1	K	L	М	N	0	P	Q	R	S	T	г	U
1	make	model	variant	ex-showr	displacemo	cylinders	valves_	pe drivetrain	cylinder_	cemission	engine_l	o fuel_syste	fuel_ta	nk fuel_typ	e height_m	length_mi	width_mr	body_type	doors	arai_	certif k	erb_
2	Tata	Nano Gen	Xt	292667	624	2		2 RWD	In-line	BS IV	Rear - Tra	Injection		24 Petrol	1652	3164	1750	Hatchback		5	23.6	
3	Tata	Nano Gen	Xe	236447	624	2		2 RWD	In-line	BS IV	Rear - Tra	Injection		24 Petrol	1652	3164	1750	Hatchback		5	23.6	
4	Tata	Nano Gen	Emax Xm	296661	624	2		2 RWD	In-line	BS IV	Rear - Tra	Injection		15 CNG	1652	3164	1750	Hatchback		4	36	
5	Tata	Nano Gen	Xta	334768	624	2		2 RWD	In-line	BS IV	Rear - Tra	Injection		24 Petrol	1652	3164	1750	Hatchback		5	21.9	
6	Tata	Nano Gen	Xm	272223	624	2		2 RWD	In-line	BS IV	Rear - Tra	Injection		24 Petrol	1652	3164	1750	Hatchback		5	23.6	
7	Tata	Nano Gen	Xma	314815	624	2		2 RWD	In-line	BS IV	Rear - Tra	Injection		24 Petrol	1652	3164	1750	Hatchback		5	21.9	
8	Datsun	Redi-Go	D	279650	799	3		4 FWD	In-line	BS IV	Front - Tr	aInjection		28 Petrol	1541	3429	1560	Hatchback		5 2	25.17	12
9	Datsun	Redi-Go	T	351832	799	3		4 FWD	In-line	BS IV	Front - Tr	aInjection		28 Petrol	1541	3429	1560	Hatchback		5 2	25.17	12
10	Datsun	Redi-Go	Α	333419	799	3		4 FWD	In-line	BS IV	Front - Tr	aInjection		28 Petrol	1541	3429	1560	Hatchback		5 2	25.17	12
11	Datsun	Redi-Go	S	362000	799	3		4 FWD	In-line	BS IV	Front - Tr	aInjection		28 Petrol	1541	3429	1560	Hatchback		5 2	25.17	12
12	Datsun	Redi-Go	1.0 S	390000	999	3		4 FWD	In-line	BS IV	Front - Tr	alnjection		28 Petrol	1541	3429	1560	Hatchback		5	22.5	12
13	Datsun	Redi-Go	1.0 S Amt	437065	999	3		4 FWD	In-line	BS IV	Front - Tr	alnjection		28 Petrol	1541	3429	1560	Hatchback		5	23	12
14	Renault	Kwid	Rxe 0.8	353290	799	3		4 FWD	In-line	BS VI	Front - Tr	alnjection		28 Petrol	1490	3731	1579	Hatchback		5 2	25.17	
15	Renault	Kwid	Std 0.8	283290	799	3		4 FWD	In-line	BS VI	Front - Tr	alnjection		28 Petrol	1490	3731	1579	Hatchback		5 2	25.17	
16	Renault	Kwid	RxI 0.8	383290	799	3		4 FWD	In-line	BS VI	Front - Tr	alnjection		28 Petrol	1490	3731	1579	Hatchback		5 2	25.17	
17	Renault	Kwid	Rxt 0.8	413290	799	3		4 FWD	In-line	BS VI	Front - Tr	alnjection		28 Petrol	1490	3731	1580	Hatchback		5 2	25.17	
18	Renault	Kwid	Rxt 1.0	433290	999	3		4 FWD	In-line	BS VI	Front - Tr	aInjection		28 Petrol	1490	3731	1579	Hatchback		5 2	23.01	
19	Renault	Kwid	Climber 1	454490	999	3		4 FWD	In-line	BS VI	Front - Tr	aInjection		28 Petrol	1490	3731	1579	Hatchback		5 7	23.01	
20	Renault	Kwid	Rxt Amt 1	463290	999	3		4 FWD	In-line	BS VI	Front - Tr	alnjection		28 Petrol	1490	3731	1579	Hatchback		5 2	24.04	
21	Renault	Kwid	Climber A	484490	999	3		4 FWD	In-line	BS VI	Front - Tr	alnjection		28 Petrol	1490	3731	1579	Hatchback		5 2	24.04	
22	Renault	Kwid	Rxt (O) 1.	440990	999	3		4 FWD	In-line	BS VI	Front - Tr	alnjection		28 Petrol	1490	3731	1579	Hatchback		5 2	23.01	
23	Renault	Kwid	Rxt (O) Ar		999	3		4 FWD	In-line	BS VI	Front - Tr	aInjection		28 Petrol	1490	3731	1579	Hatchback		5 2	23.01	
24	Renault	Kwid	Climber (999	3		4 FWD	In-line	BS VI		aInjection		28 Petrol	1490	3731	1579	Hatchback		5 2	23.01	
25	Renault	Kwid	Climber (492190	999	3		4 FWD	In-line	BS VI	Front - Tr	alniection		28 Petrol	1490	3731	1579	Hatchback		5 2	24.04	

Data Statistics Performed

- 1. Descriptive Analysis
- 2. Top Car Models
- 3. Cheapest Car Models
- 4. Popular Fuel Types
- 5. Seating Capacity Insights
- 6. Fuel Efficiency Analysis
- 7. Correlation Analysis
- 8. Outliers Detection
- 9. Average Price by Make
- 10. Price Segmentation
- 11. Model manufactured by Each Maker
- 12. Feature-Rich Cars
- 13. Cars with Less Features

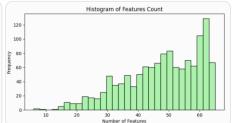
Affordable

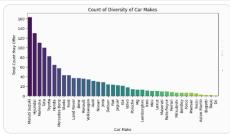
Expensive

Super Expensive

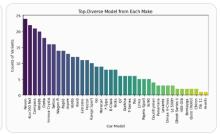
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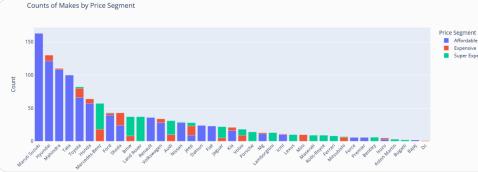


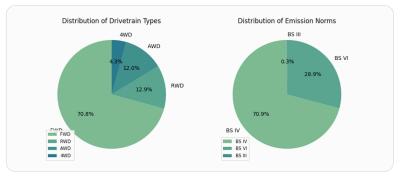


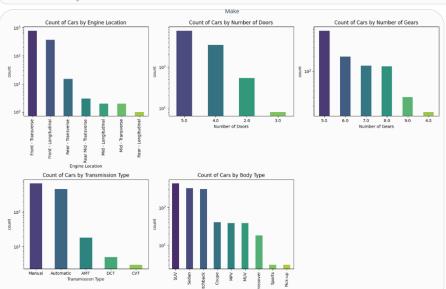


Distribution of Fuel Types







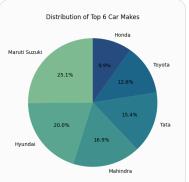




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Count of Cars by Desired Body Types

Body Type



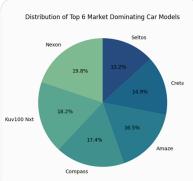
6000

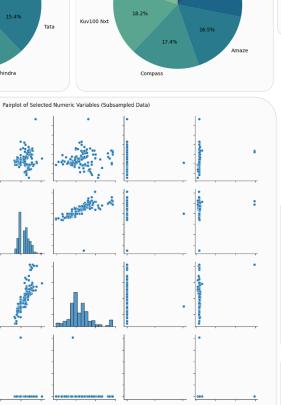
2000 e

품 0.6

0.4 0.2

3000

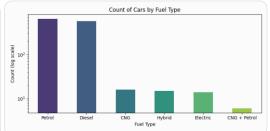


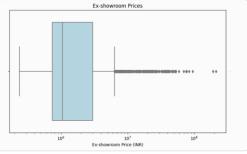


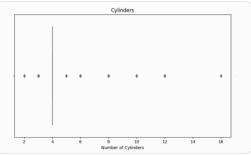
kerb_weight_kg

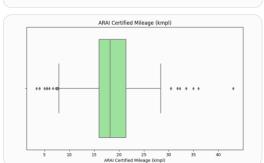
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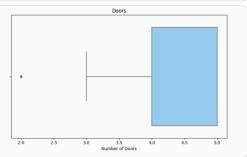
ground_clearance_mm

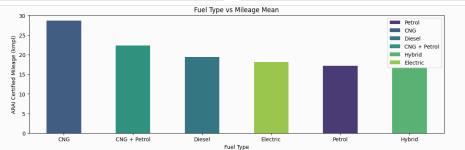










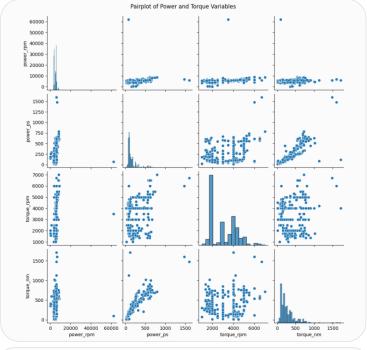


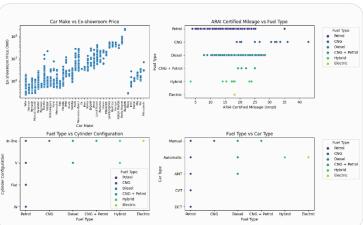
2000 4000 length_mm 1750 2000

width mm

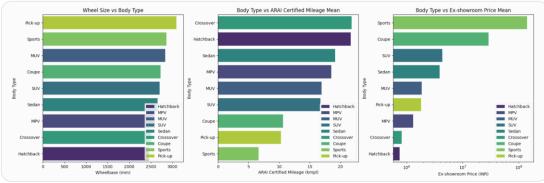
1500 2000 2500 height_mm

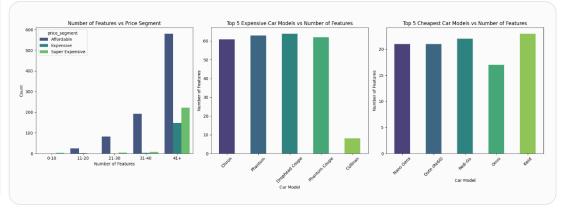










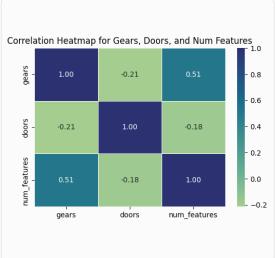


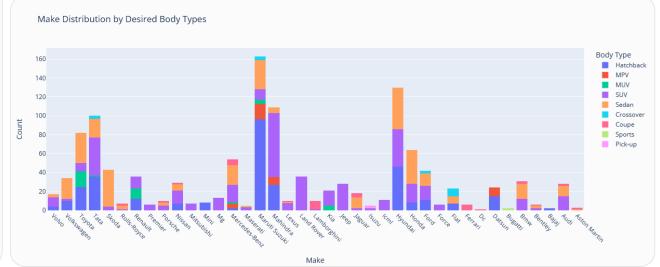




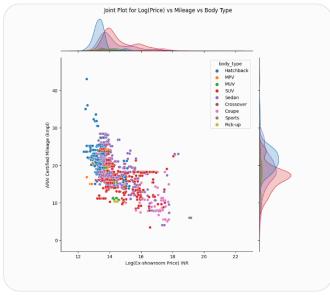


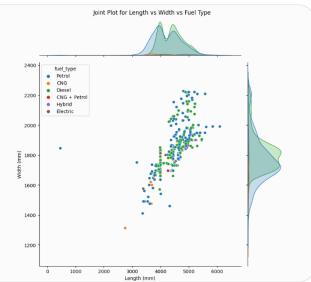


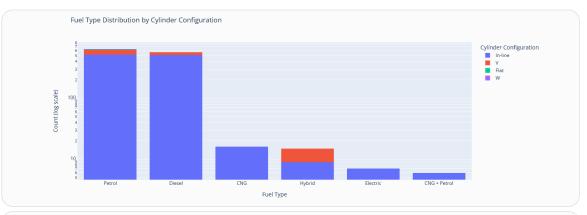


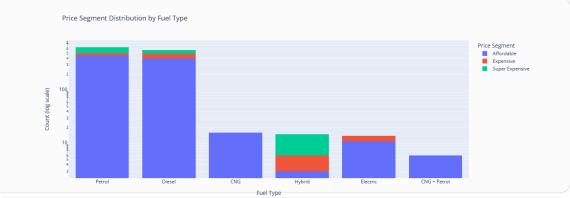


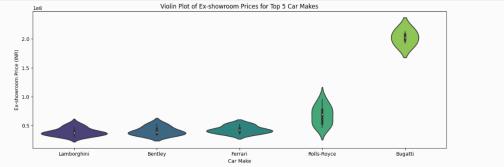




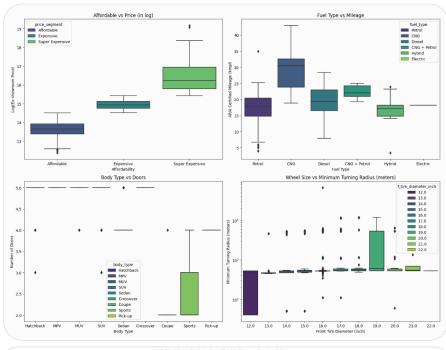


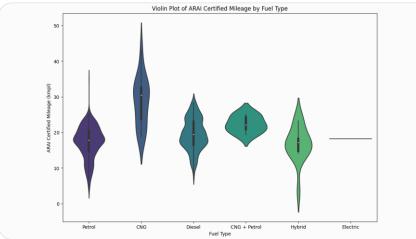


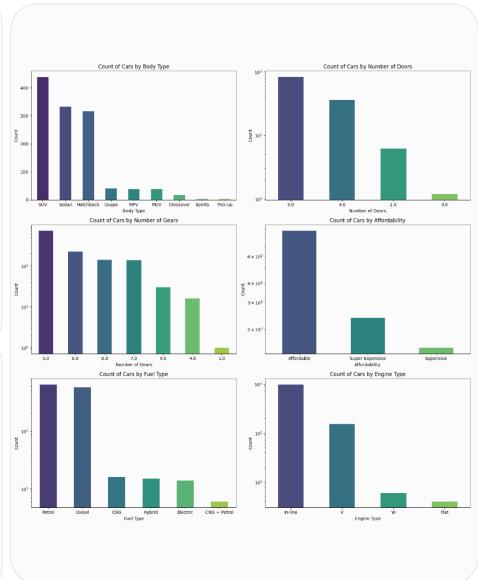












Week 6

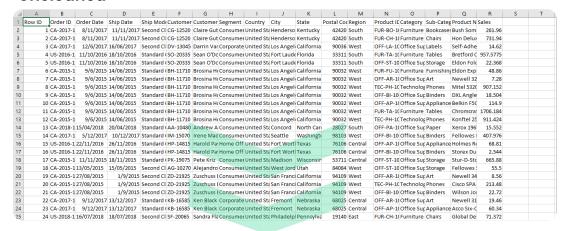
Superstore Sales EDA



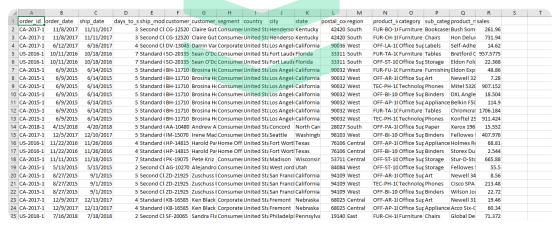


Data Processing

Uncleaned



Cleaned



Data Statistics Performed

- I. Descriptive Analysis
- 2. Top Customers
- 3. Popular Products
- 4. Customer Segmentation
- 5. Temporal Trends
- 6. Geographical Analysis
- 7. Shipping Analysis
- 8. Correlation Analysis
- 9. Outliers Detection
- 10. Average Sales by Category

Superstore Sales EDA

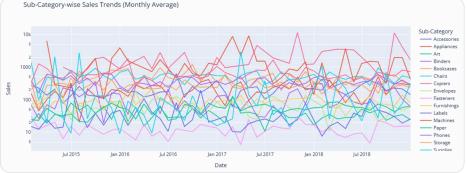


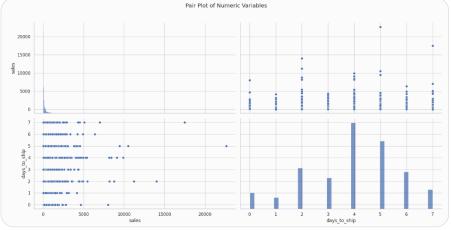
Superstore Sales EDA

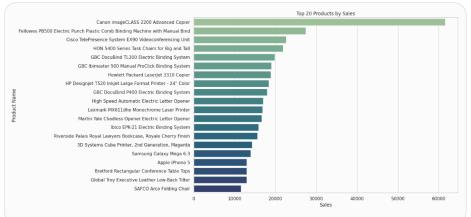


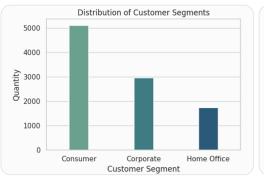








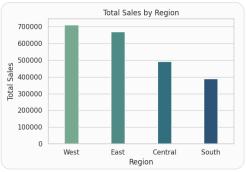


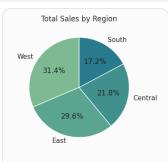


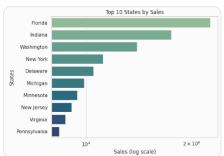


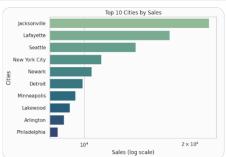
Superstore Sales EDA

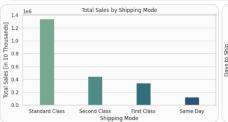
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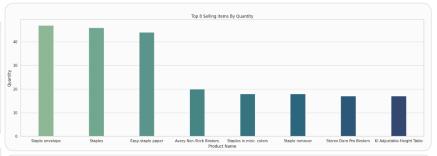


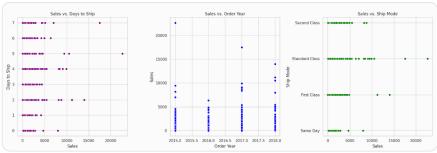




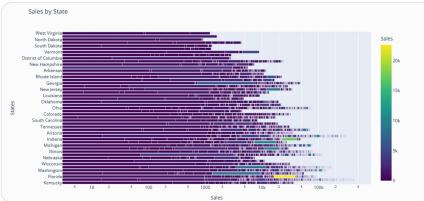


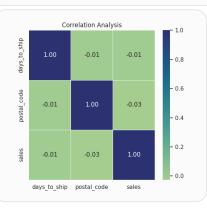


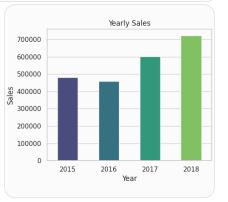












Thank You Preplnsta

Winter Internship
By Arijit Dhali