AMAZON SALES DATA TATTOTO

Detailed Project Report

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PROJECT DETAIL

Project Title	Amazon Sales Data Analysis
Technology	Business intelligence
Domain name	E-Commerce
Project Difficulties Level	Advanced
Tools	Jupyter notebook, Power Bi, Ms Excel, Ms PowerPoint, Ms Word.



OBJECTIVE:

 Finding Sales & Profit Trend month wise, year wise, yearly month wise

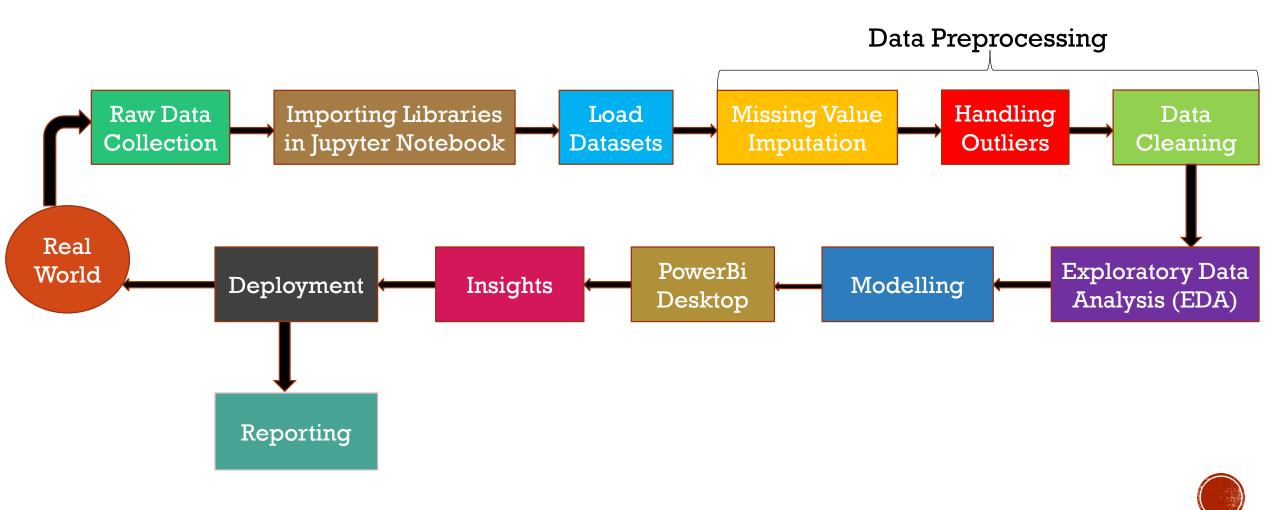


PROBLEM STATEMENT

- Sales management has gained importance to meet increasing competition and the need for improved methods of distribution to reduce cost and to increase profits.
 Sales management today is the most important function in a commercial and business enterprise.
- Do ETL: Extract-Transform-Load some Amazon dataset and find for me Sales-trend
 -> month wise, year wise, yearly-month wise.
- Find key metrics and factors and show the meaningful relationships between attributes.



ARCHITECTURE

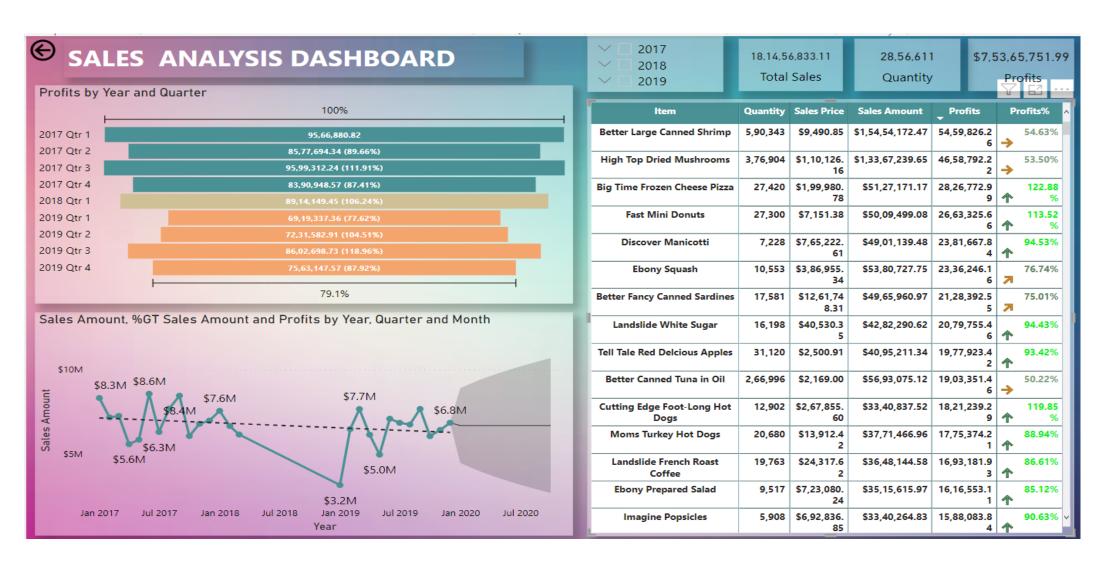


DATASET INFORMATION

•This is a Sales related dataset that contains Information like Sales Amt., Cost Amt., Sales Prices, List Prices, Sales Margins, Sales Quantities, etc

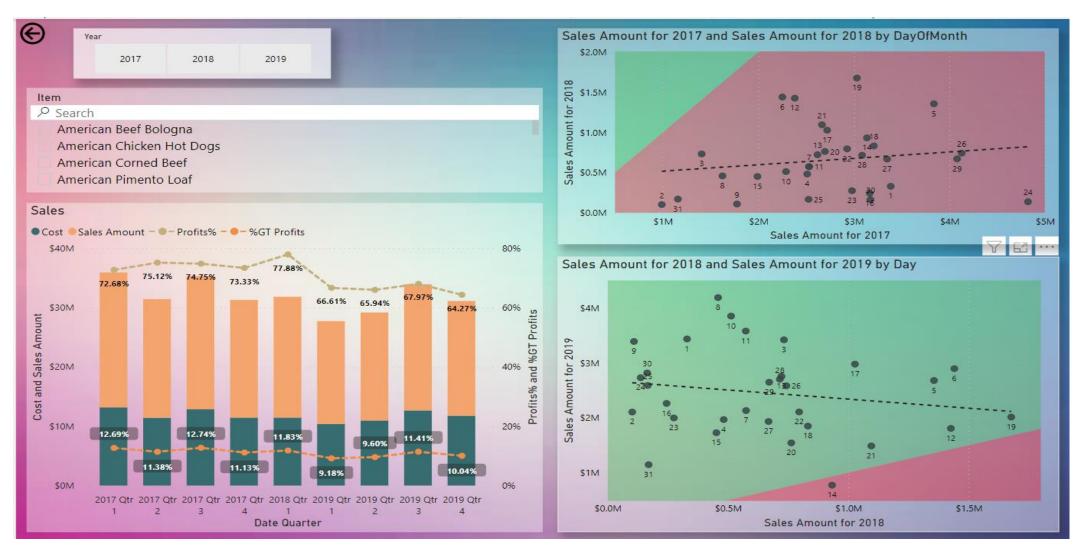


SALES & PROFIT INFO





SALES INSIGHTS



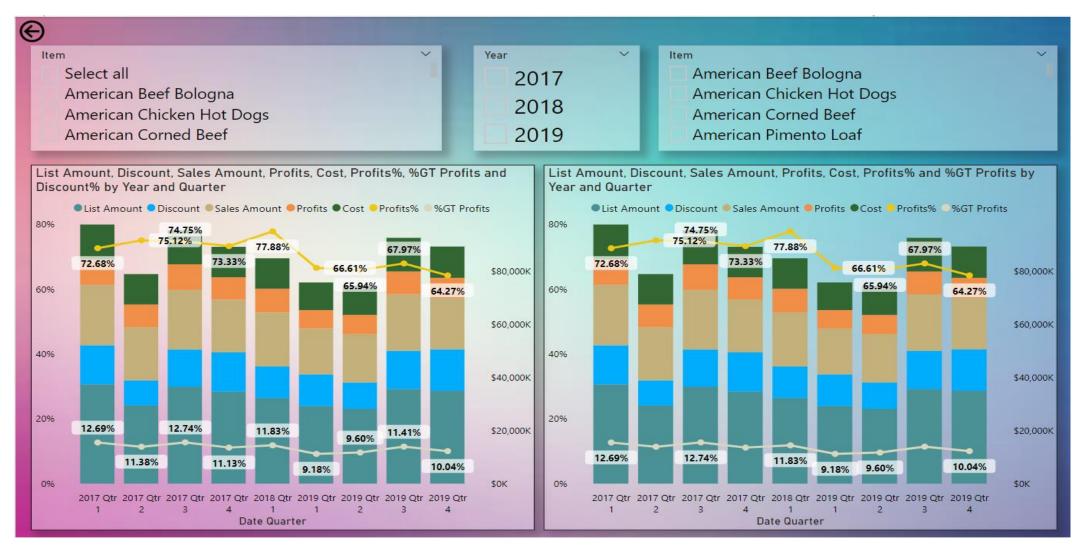


TOP & BOTTOM PRODUCTS





ITEM COMPARISION



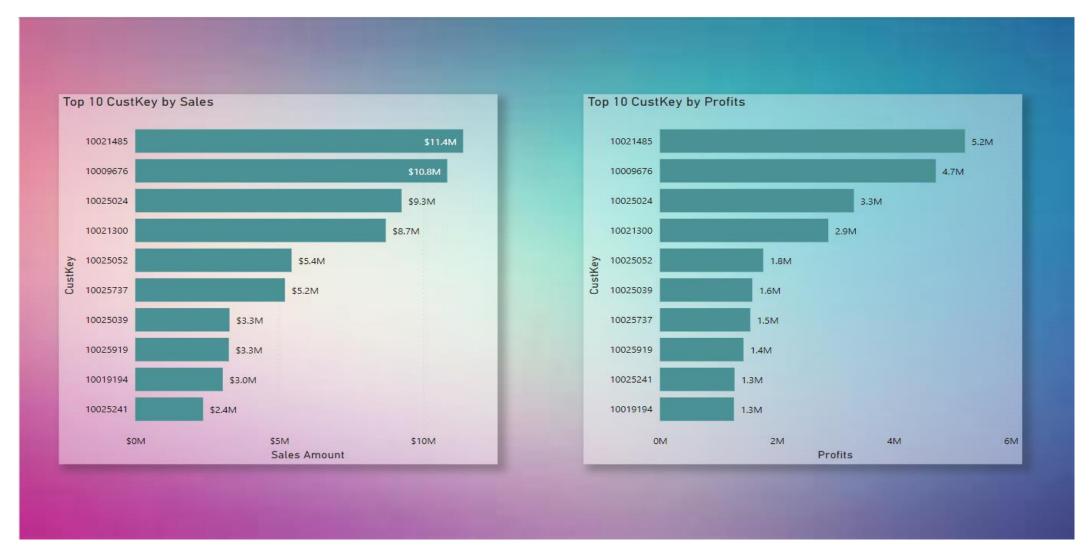


DETAILED PROFIT ANALYSIS





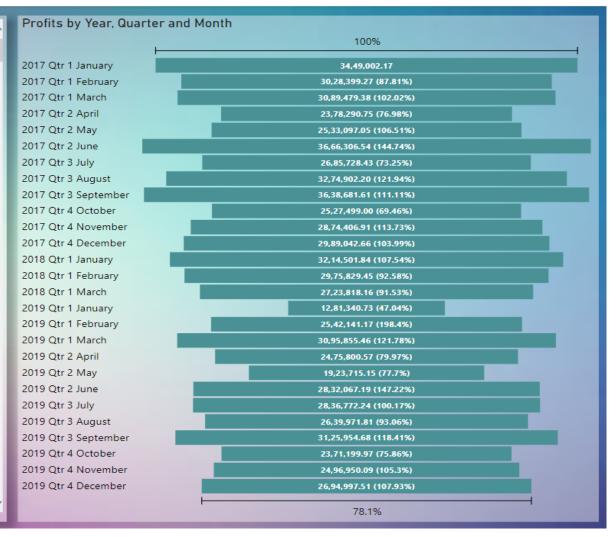
TOP BY CUSTKEY





SALES TREND

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ı	Invoice Date	First Item	Quantity	Sales Amt	Profits	Profits%	^
I	16-06-2017	Atomic Bubble Gum	23,710	\$6,71,855.84	2,42,262.4 2	56.39%	
	28-06-2019	Atomic Bubble Gum	23,708	\$6,44,783.05	2,15,265.7 7	50.12%	
ı	14-07-2017	Atomic Spicy Mints	17,822	\$6,03,322.61	1,98,130.6 5	48.90%	
ı	06-01-2018	Atomic Spicy Mints	17,820	\$6,20,933.57	2,15,517.8 8	53.16% ↑	
ľ	14-01-2017	Atomic Spicy Mints	17,819	\$6,02,653.18	1,97,461.2 2	48.73%	
ľ	14-04-2017	Atomic Spicy Mints	17,819	\$6,02,653.18	1,97,461.2 2	48.73%	
	25-01-2019	Atomic Spicy Mints	17,819	\$5,78,547.05	1,73,355.0 9	42.78%	
ı	26-04-2019	Atomic Spicy Mints	17,819	\$5,78,547.05	1,73,355.0 9	42.78%	
ı	26-07-2019	Atomic Spicy Mints	17,819	\$5,78,547.05	1,73,355.0 9	42.78%	
	18-06-2017	American Potato Salad	17,649	\$10,75,725.7 1	4,77,173.3 4	79.72% ↑	
ľ	30-06-2019	American Potato Salad	17,511	\$10,11,561.1 0	4,13,530.2 9	69.15%	
ı	12-05-2017	Atomic Bubble Gum	17,090	\$6,57,549.08	2,35,780.6 9	55.90 %	
ı	24-05-2019	Atomic Bubble Gum	17,066	\$6,30,472.63	2,09,183.3 7	49.65%	
	12-02-2018	American Chicken Hot Dogs	16,449	\$8,79,580.88	3,98,430.2 2	82.81% ↑	
	20-08-2017	American Chicken Hot Dogs	16,429	\$8,54,302.93	3,73,304.8 9	77.61%	
	20-02-2017	American Chicken Hot Dogs	16,427	\$8,53,565.94	3,72,567.9 0	77.46%	
	03-03-2019	American Chicken Hot Dogs	16,427	\$8,19,423.30	3,38,425.2 6	70.36%	~





MONTHLY RECORDS



Year	Quarter	Month	Sales Amount	Change%	^
2017	Qtr 1	January	\$83,13,016.02	100.00%	
2017	Qtr 1	February	\$71,63,218.44	-16.05%	
2017	Qtr 1	March	\$72,53,621.83	1.25%	
2017	Qtr 2	April	\$55,86,142.33	-29.85%	
2017	Qtr 2	May	\$58,49,664.04	4.50%	
2017	Qtr 2	June	\$85,60,207.11	31.66%	
2017	Qtr 3	July	\$63,05,816.43	-35.75%	
2017	Qtr 3	August	\$76,86,027.58	17.96%	
2017	Qtr 3	September	\$84,48,763.12	9.03%	
2017	Qtr 4	October	\$60,65,947.80	-39.28%	
2017	Qtr 4	November	\$67,88,433.27	10.64%	
2017	Qtr 4	December	\$69,78,917.15	2.73%	
2018	Qtr 1	January	\$75,54,685.37	7.62%	
2018	Qtr 1	February	\$66,52,728.42	-13.56%	
2018	Qtr 1	March	\$61,52,910.84	-8.12%	
2018	Qtr 2	April		-Infinity	
2019	Qtr 1	January	\$31,70,346.02	100.00%	
2019	Qtr 1	February	\$64,77,566.63	51.06%	
Total	0.1	A.4	\$18,14,56,833.11	100.00%	~

Item	Prev Month	Sales Amount	Change%
American Beef Bologna		\$2,730.18	100.00%
American Chicken Hot Dogs		\$14,286.59	100.00%
American Corned Beef		\$3,84,491.50	100.00%
American Pimento Loaf		\$54,702.82	100.00%
American Potato Salad		\$45,159.32	100.00%
American Roasted Chicken		\$1,65,999.97	100.00%
American Sliced Ham		\$846.40	100.00%
Applause Canned Mixed Fruit		\$28,243.33	100.00%
Atomic Bubble Gum		\$26,198.32	100.00%
Atomic Mint Chocolate Bar		\$13,19,333.04	100.00%
Atomic Mints		\$618.36	100.00%
Total		\$18,14,56,833.11	100.00%



QUESTIONS AND ANSWERS

- Q1) What's the source of data?
- Ans) TheDataset wastaken fromiNeuron'sProvidedProject DescriptionDocument. https://docs.google.com/spreadsheets/d/1h3EsPf-fTLrzpP7sGeyuRnGBXrdJRcXY/edit?usp=sharing&ouid=105519103382792804653&rtpof=true&sd=true
- Q2) What was the type of data?
- Ans) Thedata was a combination of numerical and Categorical values.
- Q 3) What was the complete flow you followed in this Project?
- Ans) Referslide 5 th forbetter Understanding
- Q4) What techniques were you using for data?
- Ans) -Removing unwanted attributes.
- -Visualizing relation of independent variables with each other and output variables.
- -Checking and changing distribution of continuous values.
- -Removing outliers -Cleaningdata and imputingifnull values are present.
- -Transforming data to yield the desired result.



