Analytics ToolFor Ecommerce Businesses

Introduction:

We are living in the digital era. Everything have become online nowadays. Especially during this pandemic, people preferto purchase online. Also, 25

% of retailers launched their own e-commerce store. From A to Z all the diverse products are available here. So, to maintain our store effectively andto run a successful business , the maintenance of data like revenue , no of orders , customer feedback is very important . So we are planed to make ANALYTICAL DASHBOARD containing metrics and Other data without spending more minutes or even hours on our data using IBM Cognos Analytics tool. By analysing such data we can improve our online store effectively in all aspectsand understand our customers better.

Objective:

We are going to build a user friendlyinterface which containsall the statics such as:

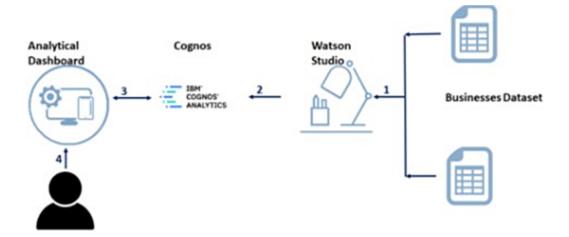
- 1. Region that accounts for greater number of orders.
- 2. Frequency distribution of quantity ordered.
- 3. Percentage sales by different productcategories.
- 4. Profitable products or their sub products in last few years.
- 5. Products that incurred losses.
- 6. Product type that was orderedgreater times.
- 7. Yearly sales for various states.

- 8. Forecasting future sales according to shipping date.
- 9. Trend in profit/sales over time (years/months/quarters).

Technology used:

IBM Cognos Analytics, IBM Cloud, IBM Watson Studio.

Block diagram:



Flow:

step 1:

collect the required dataset from https:// www.kaggle.com/juhi1994/superstore and edit it accordingto your desired dataset.

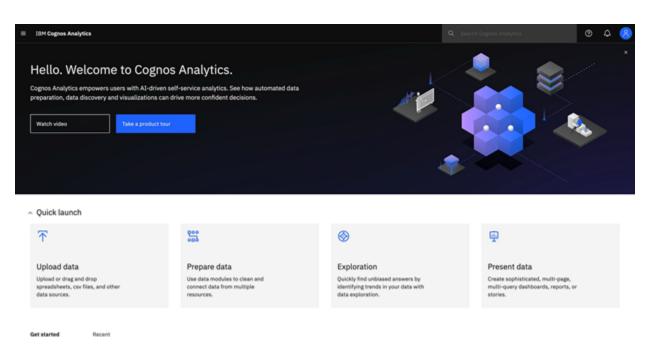
step 2:

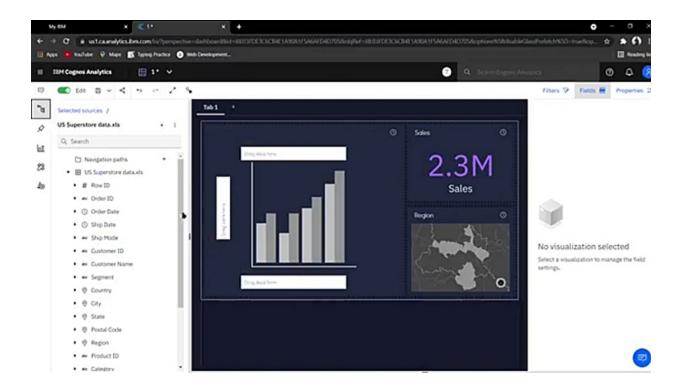
open ibm cognos analytics and start your free trailand then Click , and click Dashboard

step 3: upload the dataset

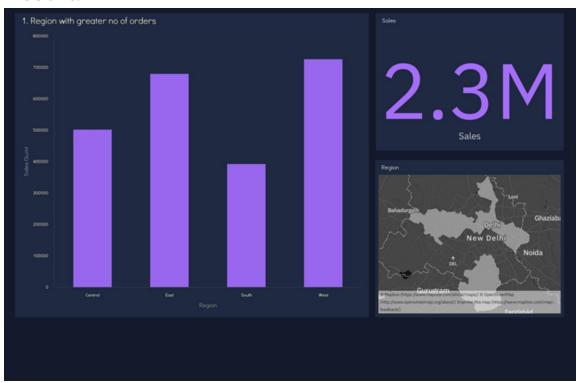
step 4:

drag the features needed to be analysed and create your own desired graphs and make it attractive by using filters.

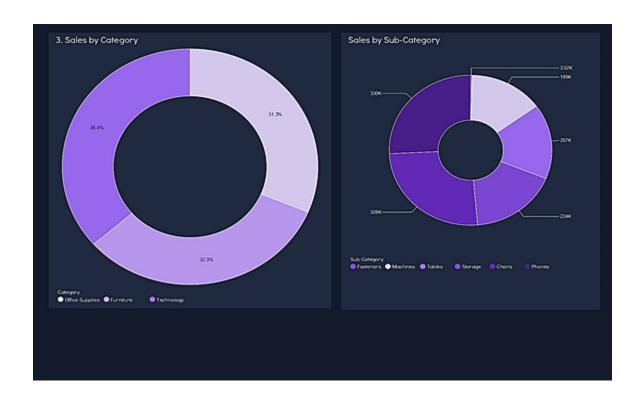


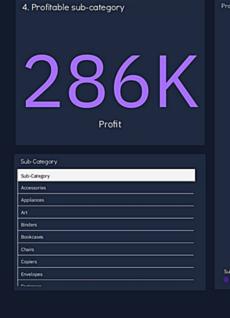


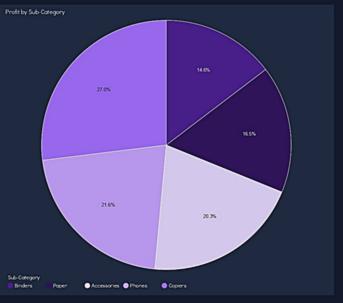
Result:

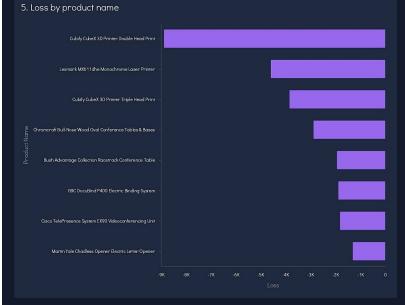


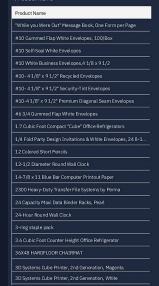


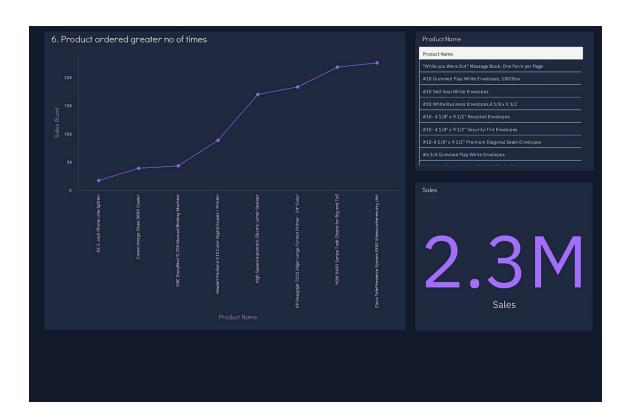




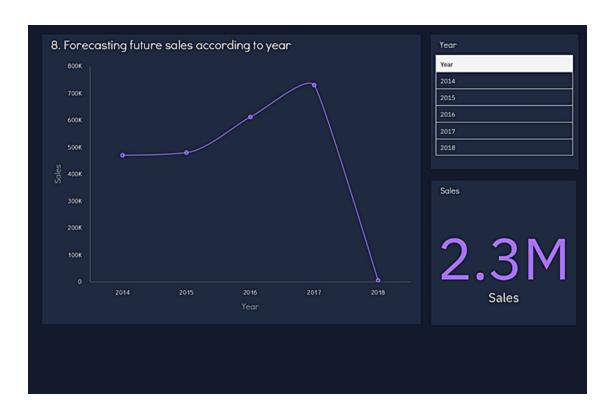














Advantages:

- 1. We have to spend lots of time on analysing data manually, this tool helps us in time consumption
- 2. These colorful pictorial representations helps in easy understanding and makes one feel pleasant while go throwing the data
- 3. Forcasting inventory for the next season
- 4. Lets us know customers better

Applications:

Analytics plays a vital role in the development of e-commerce which decides everything isn't that complicated to sort out online marketing. In the end, it's all about finding your customer requirements. Ecommerce market research is just gathering information to analyze what your potential customer exactly needs. Concerning analytics, research gives an idea of the quantitative and qualitative notions behind why people buy a particular product or service. from optimizing the CTA to the traffic on the website. Analytic tools differ with their accessibility, price, complexity, etc. there are various e-commerce tools available that depict your data the way you wanted it to look and help you get more customers independent of organic traffic, social media, or email marketing.

Conclusion:

It isn't that complicated to sort out online marketing. In the end, it's all about finding your customer requirements. Ecommerce market research is just gathering information to analyze what your potential customer exactly needs. Concerning analytics, research gives an idea of the quantitative and qualitative notions behind why people buy a particular product or service.

Future scope:

Massive growth of population has lead to increase in e-commerce business, where our recommendation engine has the strongest contribution. Scope of e-commerce is too wider in future because majority of the people are purchasing products from online. Predictive analysis can boost up e-commerce. This will rise the sales percentage of the store and this is also a way of marketing. This is also used for promoting the future e-commerce business