

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



R.M.K.ENGINEERING COLLEGE

(An Autonomous Institution)

R.S.M. Nagar, Kavaraipettai-601 206

PROJECT BASED EXPERIENTIAL LEARNING PROGRAM (NALAIYA

THIRAN)

Global sales data analytics

A PROJECT REPORT

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1. INTRODUCTION 1.1 Project Overview Shopping online is currently the need of the hour. Because of this COVID, it is not easy to walk in a store randomly and buy anything you want. So, try to understand a few things like, Customer

Analysis and Product Analysis of this Global Super Store. Global Sales covers all activities involved in selling a product or service to a consumer or business. It is important for sales and marketing teams to review their strategies and performance in order to make improvements. Understanding performance with sales data analytics helps sales and marketing teams to review their strategies and performance in order to make improvements. Sales analytics provides valuable information like Customer Analysis and Product Analysis to improve sales methodologies. Users create multiple analytical graphs/charts/Visualizations. One way to measure performance is with sales analytics.

1.2 Purpose

Global Sales covers all activities involved in selling a product or service to a consumer or business. It is important for sales and marketing teams to review their strategies and performance in order to make improvements. One way to measure performance is with sales analytics. Sales data analytics refers to the use of technology to collect and use sales data to identify actionable insights. It is used to identify, optimize, and increase sales. An efficient sales model that generates higher revenue for the business.

2. LITERATURE SURVEY

			Techniqu	e	Findings
Title & Author(s)	Year				
Big Data Analytics and Deep	2019	Big	data		Merits: Used to
Learning Based Sentiment			applications	analytics	understand complex
Analysis			in e	(BDA)	datasets in a matter of
System for Sales Prediction -			commerce.	-	time with beautiful
Khatiwada, Aamod and					visual representations.
Kadariya, Pradeep and					1

Agrahari, Sandip and Dhakal, Rabin.			
			Demerits: Lack of security since large data processed simultaneously
COVID-19 pandemic in the new era of big data analytics: Methodological innovations and future research directions - Sheng, Jie and Amankwah- Amoah, Joseph and Khan, Zaheer and Wang, Xiaojun	2021	Descriptive and diagnostic analytics, Predictive analytics	Merits: By comparing with machine learning models, we find that the proposed model is superior to others. Demerits: The experiment only considers the features of the product and does not consider external influences, such as the impact of regulations on sales. It uses only small dataset.
Sales Forecasting Based on CatBoost - Jingyi Ding, Ziqing Chen.	2020	CatBoost algorithm.	Merits: The search stops when no improvements over the current best solution have been found in 300 iterations. Demerits: Dataset is limited

Developing and Implementing Big Data Analytics in Marketing - Dina Darwish	2020	Big data analytics, R tool.	Merits: The proposed method is based on similarity measurement without complex training so that forecast can be completed in a short time, and performs well in smallscale data Demerits: The experiment only considers the features of the product and does not consider external influences, such as the impact of regulations on sales. It uses only small dataset.
Social media big data analytics for demand forecasting: development and case implementation of an innovative framework-Iftikhar, Rehan and Khan, Mohammad Saud	2020	Definitional aspects of big data analytics (BDA) in ecommerce	Merits: Captured linearity and non linearity better than ARIMA and ARNN gave the best result of 565 RMSE. Demerits: Hybrid Technique can fail if nonlinear model fails to capture residue patterns

2.1 Existing problem

- 1. Lack of security since large data processed simultaneously
- 2. Hybrid Technique can fail if nonlinear model fails to capture residue patterns
- 3. The experiment only considers the features of the product and does not consider external influences, such as the impact of regulations on sales. It uses only small dataset.
- 4. Dataset is limited

5. The experiment only considers the features of the product and does not consider external influences, such as the impact of regulations on sales. It uses only small dataset.

2.2 References

- 1. Big Data Analytics and Deep Learning Based Sentiment Analysis System for Sales Prediction Khatiwada, Aamod and Kadariya, Pradeep and Agrahari, Sandip and Dhakal, Rabin.
- 2. COVID-19 pandemic in the new era of big data analytics: Methodological innovations and future research directions Sheng, Jie and Amankwah-Amoah, Joseph and Khan, Zaheer and Wang, Xiaojun
- 3. Sales Forecasting Based on CatBoost Jingyi Ding, Ziqing Chen.
- 4. 2020 2nd International Conference on Broadband Communications, Wireless Sensors and Powering (BCWSP)-Wisesa, Oryza and Adriansyah, Andi and Khalaf, Osamah Ibrahim.
- 5. Developing and Implementing Big Data Analytics in Marketing Dina Darwish
- 6. Social media big data analytics for demand forecasting: development and case implementation of an innovative framework-Iftikhar, Rehan and Khan, Mohammad Saud

2.3 Problem Statement Definition

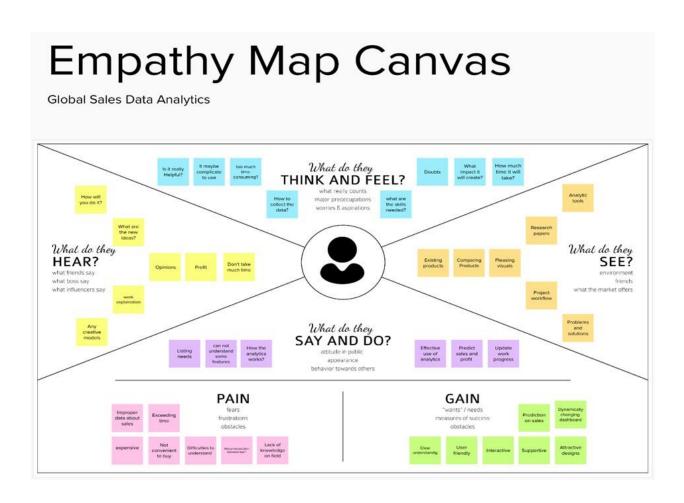
- 1. Structured data focuses on demographic data including name, age, gender, date of birth, address, and preferences, unstructured data includes clicks, likes, links, tweets, voices, etc.
- 2. The methodological innovations in studying big data analytics and. We provide insights on methods in descriptive/diagnostic, predictive and prescriptive analytics, and how they can be leveraged to study 'black swan' events such as the COVID-19-related global crisis.
- 3. It proposed a sales forecasting system based on CatBoosting. The algorithm is trained on the Walmart sales dataset, by far the largest dataset in this field. We performed effective feature engineering to boost prediction accuracy and speed.
- 4. The results of this analysis are expected to generate reliable, accurate and effective forecasting data, a valuable resource for sales predictions. It shows good accuracy in forecasting.
- 5. Companies take informative business decisions in different fields, such as, health care, banking, manufacturing, media and entertainment, education and transportation and many others.

6. Social media big data offers insights that can be used to make predictions of products' future demand and add value to the supply chain performance

3. IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas

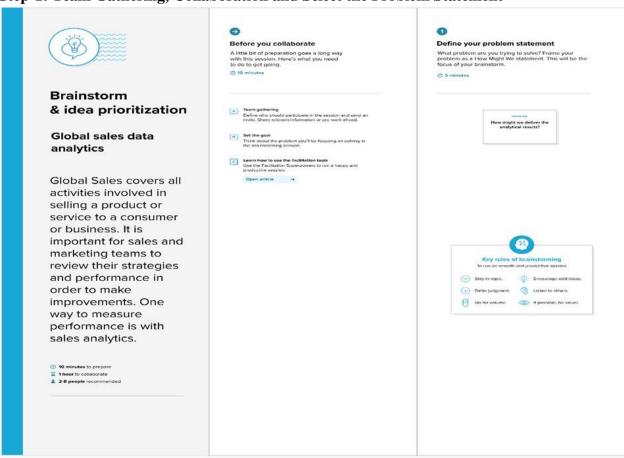
An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviors and attitudes. It is a useful tool to help teams better understand their users. Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges.



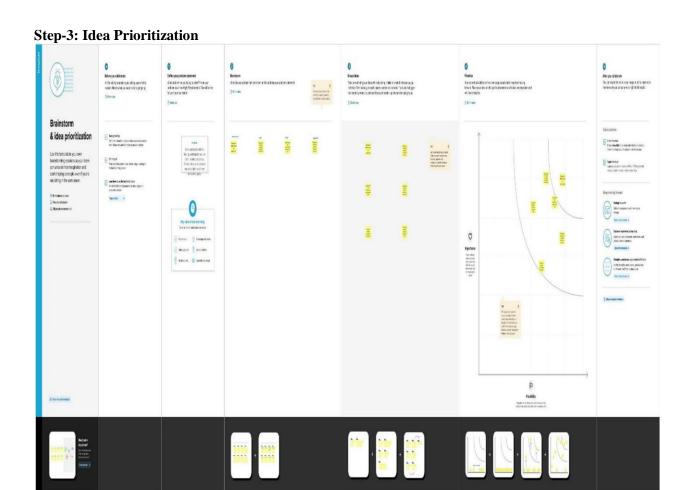
3.2 Ideation & Brainstorming

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Step-1: Team Gathering, Collaboration and Select the Problem Statement



Step-2: Brainstorm, Idea Listing and Grouping



3.3 Proposed Solution

S.No.	Parameter	Description
-------	-----------	-------------

01	Problem Statement (Problem to be solved)	Global Sales covers all activities involved in selling a product or service to a consumer or business. It is important for sales and marketing teams to review their strategies and performance in order to make improvements. One way to measure performance is with sales analytics. Sales data analytics refers to the use of technology to collect and use sales data to identify actionable insights. It is used to identify, optimize, and increase sales. An efficient sales model that generates higher revenue for the business.
02	Idea / Solution description	Use the technology to collect and use sales data to derive actionable insights. It is used to identify, optimize, and
		forecast sales. It uses sales data to plan an efficient sales model that generates higher revenue for the business. Users can create multiple Analytical Visualizations and can build the required Dashboards.
03	Novelty / Uniqueness	Understanding performance with sales data analytics helps sales and marketing teams to review their strategies and performance in order to make improvements. Sales analytics provides valuable information like Customer Analysis and Product Analysis to improve sales methodologies. Users create multiple analytical graphs/charts/Visualizations.
04	Social Impact / Customer Satisfaction	Analyzing sales helps businesses in understanding their most profitable products and the ones that are not moving, most profitable customers, and potential sales opportunities thereby providing sales which match customer needs and meets their satisfaction. It helps in the perception of profit about particular product and perception of sales in different locations and times.

05	Business Model (Revenue	Global sales analytics can use the sales data and provide			
	Model)	actionable insights for selling a product or service to a			
		consumer or business. Improve the decision-making			
		process oriented at analyzing scales trends, reducing costs			
		and increasing business revenue.			
06	Scalability of the Solution	This solution can be used from small stores to multinational companies. This solution can be processed with less memory and quickly. The solution can be used as user specified so it is easy to customer.			

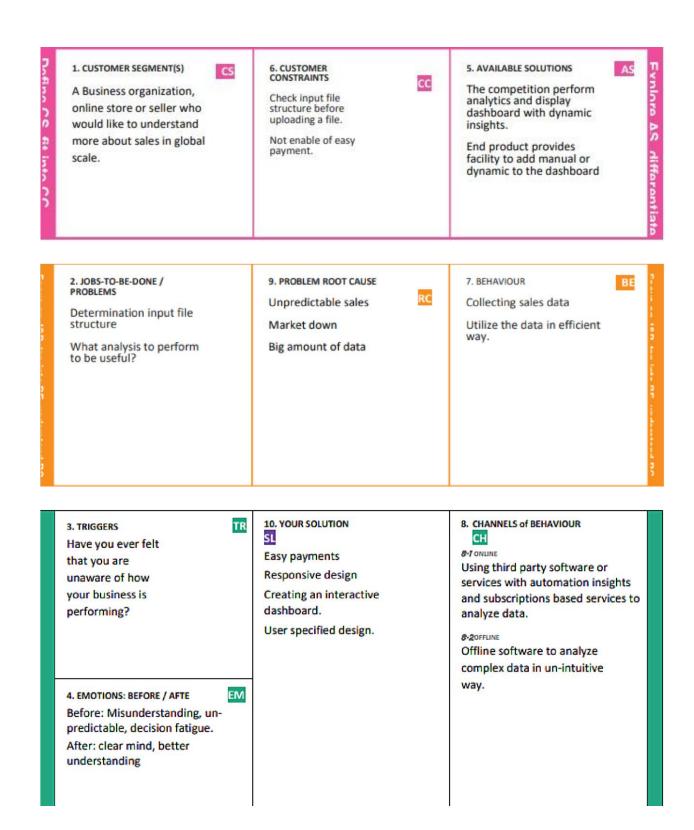
3.4 Problem Solution Fit

The problem solution fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps to identify behavioral patterns and recognize on sales.

Purpose:

rpo	se:
•	Solve complex problems in a way that fits the state of your customers. \Box
•	Succeed faster and increase your solution adoption by tapping into existing mediums and channels of behavior. \Box
•	Sharpen your communication and marketing strategy with the right triggers and messaging.
•	Increase touch-points with your company by finding the right problem-behavior fit and building trust by solving frequent annoyances, or urgent or costly problems.
•	Understand the existing situation in order to improve it for your target group.

Solution fit:



4. REQUIREMENT ANALYSIS

4.1 Functional Requirements

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Website Registration through Gmail
FR-2	User Confirmation	Confirmation via Email
FR-3	User Login	Login via Gmail and Password
FR-4	Generating Report	User can view the product details

4.2 Non-functional Requirements

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	This service will have a simple and user-friendly graphical interface. Users will be able to understand and use all the features easily.
NFR-2	Security	The main security concern is for users login information is end to end encryption should be used to avoid hacking.
NFR-3	Reliability	It has high reliability because when the system is disconnected or internet connection lost, it should save all the process of the users made.

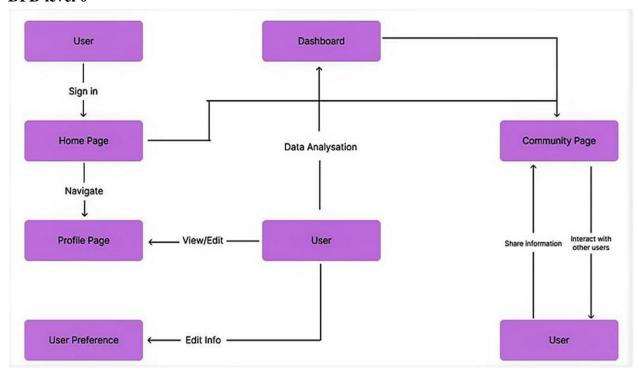
NFR-4	Performance	A good internet speed while
		browsing the product it had
		high performance with
		efficiency.
NFR-5	Availability	It will be available 24 hours a
		day and seven days a week.
		User access anywhere at any
		time.
NFR-6	Scalability	A Many users can access the
		website simultaneously.

5. PROJECT DESIGN

5.1 Data Flow Diagrams

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

DFD level 0

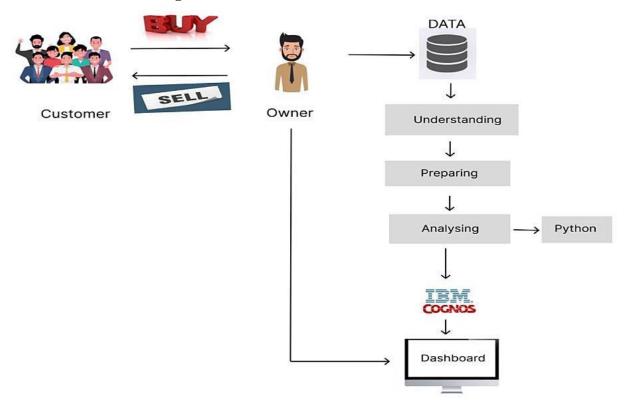


5.2 Solution & Technical Architecture

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

Solution Architecture Diagram:



5.3 User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
	Collecting dataset	USN-1	As a user, I need to gather the data in the form of CSV/XLS and clean the data.		low	Sprint-1
	Data preparation	USN-2	As a user, I need to filter it for Data visualization.		Medium	Sprint-1
	Data visualization	USN-3	As a user, I need to filter it for Data visualization.		Medium	Sprint-1
	Dashboard	USN-4	Access dashboard in website	Dashboard	medium	Sprint-2
	Report and story	USN-5	As a user, I can view the list of categorized products and their details as a report and story.	Report and Story		Sprint-2
Customer (web user)	Registration	USN-6	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-3

	Login	USN-7	As a user, I need valid credentials to log to my application.	I can receive confirmation email and click confirm.	High	Sprint-3
		USN-8	As a user, I can register for the application through Gmail	I can register and access the dashboard with Login	Low	Sprint-3
		USN-9	As a user, I can log into the application by entering email and password		High	Sprint-4
Administrator		USN- 10	It can be easily accessible and responsible.	I can access it easily through application.	High	Sprint-4

6. PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

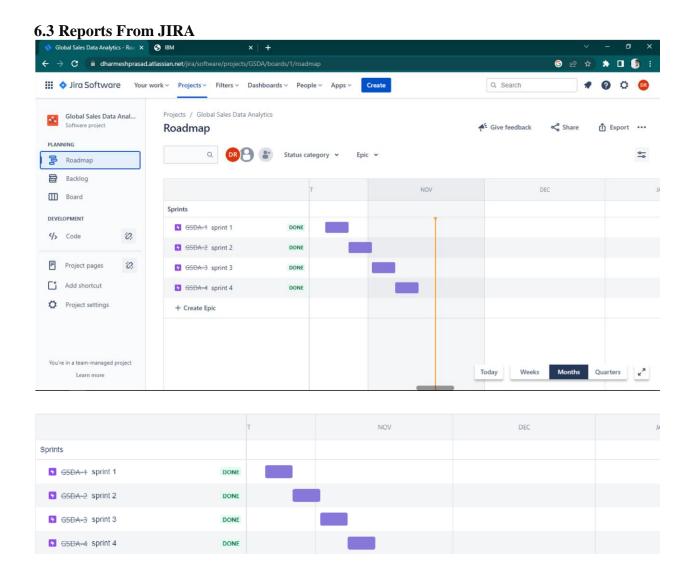
Sprint	Functional	User	User Story /	Story	Priority	Team Members
	Requirement	Story	Task	Points		
	(Epic)	Number				
Sprint -1	Registration	USN-1	As a user, I can register for the application by	5	High	Yeshwanth L Chandu K Yeshwanth K
			entering my email, password, and confirming my password.			Dinesh N
Sprint -1	Login	USN-2	As a user, I need valid credentials to log to my application.	5	High	Yeshwanth L Chandu K Yeshwanth K Dinesh N
Sprint -1	Data collection	USN-3	As a user, I need to gather the data in the form of CSV/XLS and clean the data.		High	Yeshwanth L Chandu K Yeshwanth K Dinesh N
Sprint -1	Upload dataset	USN-4	As a user, I can view the data of the products.	5	High	Yeshwanth L Chandu K

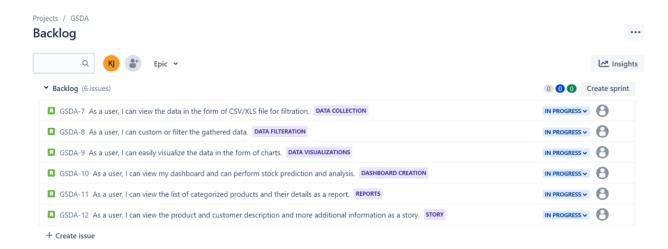
Sprint -2	Data preparation	USN-5	As a user, I need to filter it for Data visualization.	5	High	Dharmeshprasad R, Tamilvanan N
Sprint -2	Data visualization	USN-6	As a user, I need to filter it for Data visualization.	5		Yeshwanth L Chandu K Yeshwanth K Dinesh N
Sprint -2	Dashboard	USN-7	As a user, I need to filter it for Data visualization.	10	High	Yeshwanth L Chandu K Yeshwanth K Dinesh N
Sprint -3	Dashboard	USN-8	As a user, I must plan visualizations in a way that I'm able to gain insights regarding the sales based upon the category of sales and the respective region.	4	High	Yeshwanth L Chandu K Yeshwanth K Dinesh N
Sprint -3	Dashboard	USN-9	As a user, I must be able to gain insights from the charts/graphs through a variety of relationships established on the dashboard.	10	Medium	Yeshwanth L Chandu K Yeshwanth K Dinesh N

Prediction	USN-10	As a user, I see	10	Medium	Yeshwanth L
		the prediction of			Chandu K
		the specific			Yeshwanth K
		product's future			Dinesh N
		sales			
		expectation.			
Report	USN-11	As a user, I can	10	High	Yeshwanth L
		view the list of			Chandu K
		categorized			Yeshwanth K
		products and			Dinesh N
		their details as a			
		report.			
Story	USN-12	As a user, I can	10	High	Yeshwanth L
		view the product			Chandu K
		and customer			Yeshwanth K
		description and			Dinesh N
		more additional			
		information as a			
		story.			
	Report	Report USN-11	the prediction of the specific product's future sales expectation. Report USN-11 As a user, I can view the list of categorized products and their details as a report. Story USN-12 As a user, I can view the product and customer description and more additional information as a	the prediction of the specific product's future sales expectation. Report USN-11 As a user, I can view the list of categorized products and their details as a report. Story USN-12 As a user, I can view the product and customer description and more additional information as a	the prediction of the specific product's future sales expectation. Report USN-11 As a user, I can view the list of categorized products and their details as a report. Story USN-12 As a user, I can view the product and customer description and more additional information as a

6.2 Sprint Delivery Schedule

Sprint	Total	Duration	Sprint Start	Sprint End	Story	Sprint
	Story		Date	Date	Points	Release Date
	Points			(Planned)	Completed	(Actual)
					(as on	
					Planned	
					End Date)	
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022





7.CODING & SOLUTION

Feature 1 - Login page:	
1	html
2	<html lang="en"></html>
3	<head></head>
4	<meta charset="utf-8"/>
5	<meta content="Kodinger" name="author"/>
6	<meta <="" name="viewport" td=""/>
	content="width=devicewidth,initial-scale=1" />
7	<title>Global Sales Data Analytics</title>
8	k rel="stylesheet" type="text/css"
	href="assets/css/my-login.css" />
9	
10	<body class="my-login-page"></body>
11	<section class="h-100"></section>
12	<div class="container h-100"></div>
13	<pre><div class="row justify-content-md-center h-100"></div></pre>
14	<div class="card-wrapper"></div>
15	<div class="brand"></div>

16	
17	
18	<div class="card fat"></div>
19	<div class="card-body"></div>
20	<h4 class="card-title">Login</h4>
21	<pre><form <="" class="my-loginvalidation" method="POST" pre=""></form></pre>
	novalidate="">
22	<div class="form-group"></div>
23	<label for="email">E-Mail</label>
Address	
24	<input< td=""></input<>
25	id="email"
26	type="email"
27	class="form-control"
28	name="email"
29	value=""
30	required

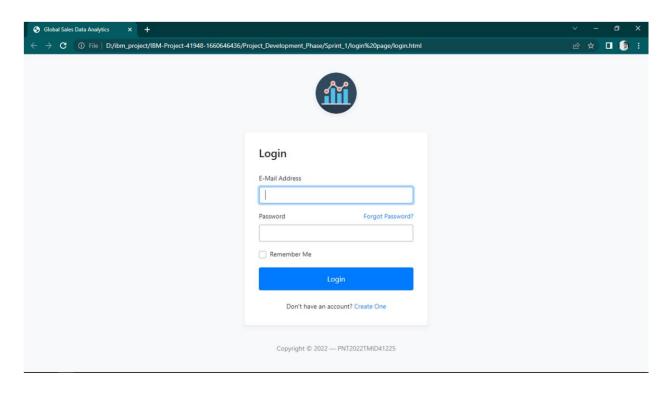
31	autofocus
32	/>
33	<div class="invalid-feedback">Email is invalid</div>
34	
35	
36	<div class="form-group"></div>
37	<label <="" for="password" td=""></label>
38	>Password
39	
40	Forgot Password?
41	
42	
43	<input< td=""></input<>
44	id="password"
45	type="password"
46	class="form-control"
47	name="password"
48	required
49	data-eye

50	/>
51	<div class="invalid-feedback">Password is</div>
	required
52	
53	
54	<div class="form-group"></div>
55	<pre><div class="custom-checkbox customcontrol"></div></pre>
56	<input< td=""></input<>
57	type="checkbox"
58	name="remember"
59	id="remember"
60	class="custom-control-input"
61	/>
62	<pre><label <="" class="customcontrol-label" for="remember" pre=""></label></pre>
63	>Remember Me
64	>
65	
66	
67	
68	<div class="form-group m-0"></div>
69	<button< td=""></button<>
70	type="submit"
71	id="mybutton"
72	class="btn btn-primary btn-block"
73	>
74	Login
75	
76	
77	<div class="mt-4 text-center"> 78 Don't</div>
	have an account?

```
79
                          <a href="register.html">Create One</a>
80
                           </div>
                           </form>
81
                          </div>
82
83
                           </div>
                           <div class="footer">
84
                          Copyright © 2022 — PNT2022TMID41225
85
                           </div>
86
                          </div>
87
                          </div>
88
                          </div>
89
90
                           </section>
91
```

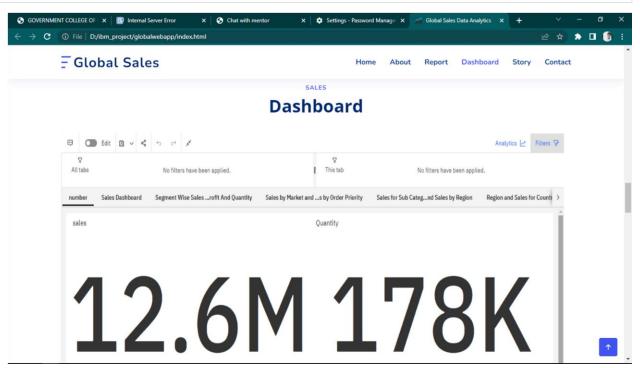
UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1 "crossorigin="anonymous"></script>

^{92 &}lt;script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integrity="sha384-



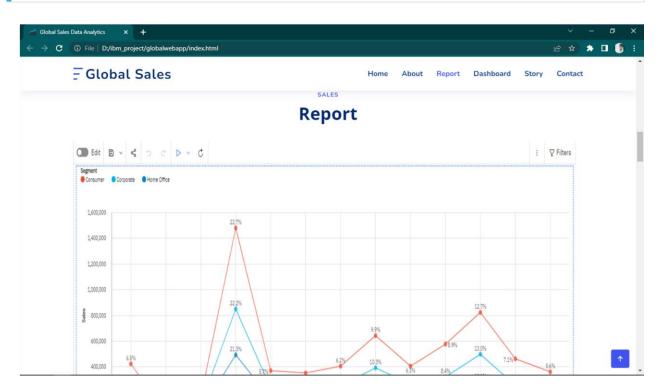
Feature 2 - Embedding dashboard to web app:

1 <iframe
src="https://us1.ca.analytics.ibm.com/bi/?perspective=dashbo
ard&pathRef=.my_folders%2Fglobalsale%2FGlobalsales_Dashb
oard&closeWindowOnLastView=true&ui_appbar=false&
ui_navbar=false&shareMode=embedd ed&action=view&m
ode=dashboard&subView=model000001847746ca80_00000000"
width="1200" height="1000" frameborder="0" gesture="media"
allow="encrypted - media" allowfullscreen=""></iframe>



Feature 3 - Embedding report to web app:

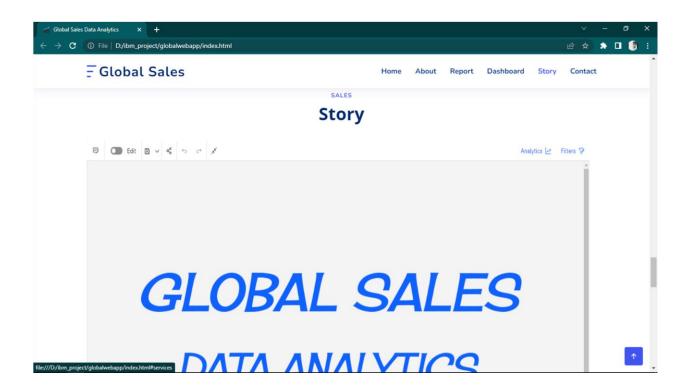
1 <iframe
 src="https://us1.ca.analytics.ibm.com/bi/?pathRef=.my_folder
 s%2Fglobalsale%2FGlobalsales_Report&closeWindowOnLastVie
 w=true&ui_appbar=false&ui_navbar=false&shareMode
 =embedded&action=edit" width="1300" height="1000"
 frameborder="0 " gesture="media" allow="encrypted - media"
 allowfullscreen=""></iframe>



Feature 4 - Embedding story to web app: 1

src="https://us1.ca.analytics.ibm.com/bi/?perspective=story& amp;pathRef=.my_folders%2Fglobalsale%2FNew%2Bstory&close WindowOnLastView=true&ui_appbar=false&ui_navbar=fals e&shareMode=embedded&action=view&sceneId=modeI00 <iframe

0001847a103dc5_00000000&sceneTime=600" width="1300" height="1000" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>



<iframe

8. TESTING

8.1 Test Cases

Test Scenarios

- Verify user able to see login page
- Verify user able to login to application or not?
- Verify user able to navigate to create your account page?
- Verify user able to recovery password
- Verify login page elements

Access visualizations

- User able to see dashboard
- User able to see report
- User able to see stories

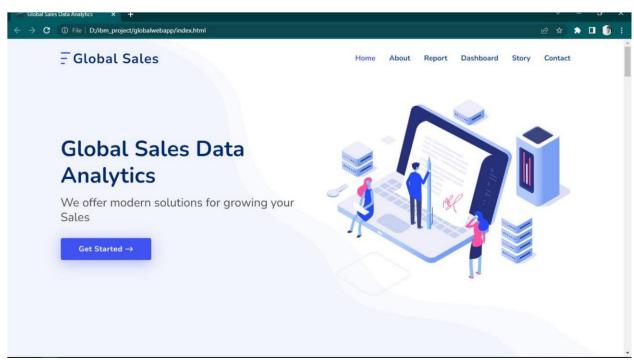
8.2 User Acceptance Testing

Defect Analysis:

Resolution	Severity	Severity	Severity	Severity 4	Subtotal
	1	2	3		
By Design	5	2	1	1	9
Duplicate	0	0	0	0	0
External	2	3	0	1	6
Fixed	4	1	2	2	9
Not Reproduced	0	0	0	0	0
Skipped	0	0	0	0	0
Won't Fix	0	0	0	0	0
Totals	11	6	3	4	24

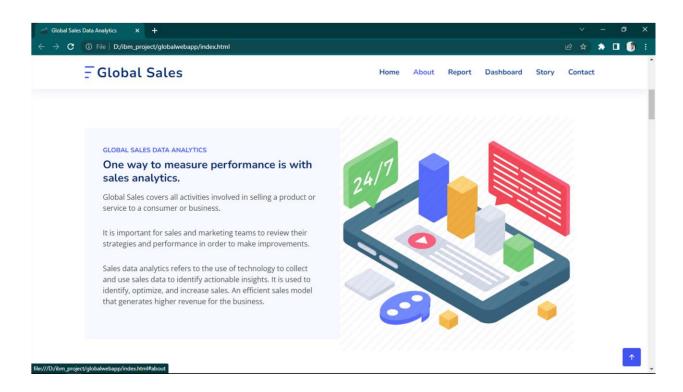
Test Case Analysis:

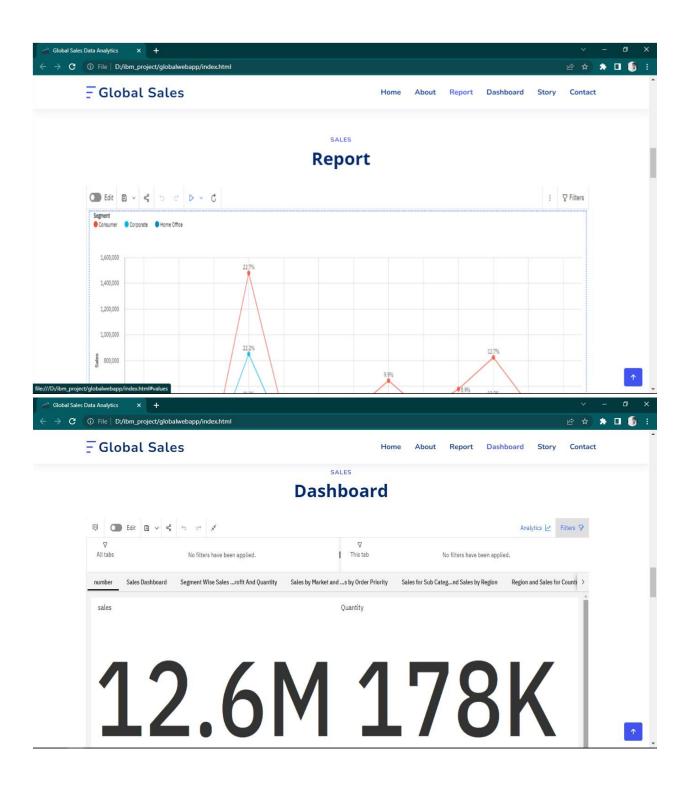
Section	Total Cases	Not Tested	Fail	Pass
Print Engine	0	0	0	0
Client Application	6	0	0	6
Security	0	0	0	0
Outsource Shipping	0	0	0	0
Exception Reporting	7	0	0	7
Final ReportOutput	0	0	0	0
Version Control	0	0	0	0

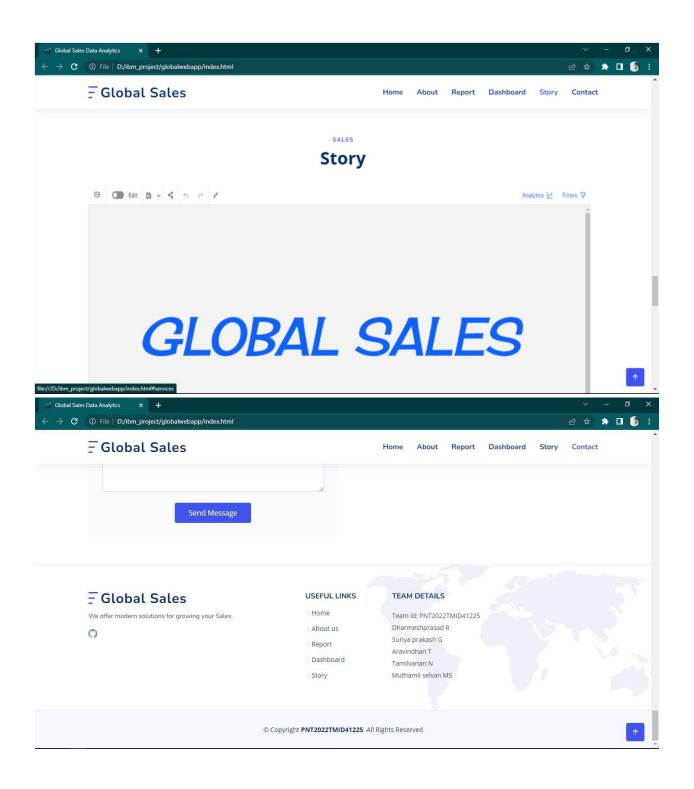


9. RESULTS

Screenshots of web application:







10. ADVANTAGES & DISADVANTAGES Advantages:

- It is used to identify, optimize, and forecast sales.
- Sales data will help a company to take a future decision in terms of inventory management, marketing activities, schemes or offers to be rolled and changes in manufacturing processes if applicable.
- An efficient sales model that generates higher revenue for the business.
- Better prediction, Profit function performance.
- Helps to review their strategies and performance in order to make improvements.

Disadvantages:

- Sales pattern can be changed
- insufficient data may lead to wrong path.
- data may have been collected for historical reasons may not be suitable to answer the questions that we ask today.
- business users do not see results immediately

11. CONCLUTION

Analyzing sales helps businesses in understanding their most profitable products and the ones that are not moving, most profitable customers, and potential sales opportunities thereby providing sales which match customer needs and meets their satisfaction. An efficient sales model that generates higher revenue for the business. It helps in the perception of profit about particular product and perception of sales in different locations and times.

12. FUTURE SCOPE

Use the technology to collect and use sales data to derive actionable insights. It is used to identify, optimize, and forecast sales. An efficient sales model that generates higher revenue for the business. An efficient sales model that generates higher revenue for the business.

13. APPENDIX

13.1 Source Code

kaggle api to gather the dataset

```
!pip install -q kaggle
!mkdir ~/.kaggle
!cp kaggle.json ~/.kaggle/
!kaggle datasets download -d mrhatrider/glabalsales
!unzip /content/glabalsales.zip
```

index.html

```
<! DOCTYPE html
  <html lang="en"
      <head >
4
        <meta charset="utf - 8" / >
5
        <meta content="width=device
                                              - width,
                                                           initial
                                                                     - scale=1.0"
   name="viewport" />
6
7
        <title>Global Sales Data Analytics</title
                                                               >
        <meta content="" name="description" /
8
9
        <meta content="" name="keywords" /
10
11
12
        <! -- Favicons
        link href="assets/i
                                   mg/favicon.png" rel="icon" />
13
        link href="assets/img/apple"
14
                                             - touch - icon.png" rel="apple
   touch - icon" />
15
               Google Fonts
16
        <! --
17
        link
18
   href="https://fonts.googleapis.com/css?family=Open+Sans:300,
   300 i,400,400i,600,600i,700,700i|Nunito:300,300i,
                                                                    400,400 i, 600
   ,600i,700,700i | Poppins:300,300i,400,400i,500,500i,600,600i,7
   00,700i"
```

```
19
           rel="stylesheet"
20
21
           <!-- Vendor CSS Files -->
22
           k href="assets/vendor/aos/aos.css" rel="stylesheet" />
23
24
           k
           href="assets/vendor/bootstrap/css/bootstrap.min.css"
25
26
           rel="stylesheet"
           />
27
28
           k
29
           href="assets/vendor/bootstrap-icons/bootstrapicons.css"
           rel="stylesheet"
30
           />
31
32
           k
           href="assets/vendor/glightbox/css/glightbox.min.css"
33
34
           rel="stylesheet"
           />
35
                   href="assets/vendor/remixicon/remixicon.css" rel="stylesheet" />
36
           k
           <link href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet" />
37
38
39
         <!-- Main CSS File -->
         k href="assets/css/style.css" rel="stylesheet" />
40
         </head>
41
42
                 <body>
43
44
                 <!-- ====== Header ====== -->
                 <header id="header" class="header fixed-top">
45
46
                 <div
                 class="container-fluid container-xl d-flex alignitems-center justify-
47
                 content-between"
48
```

49			•
50			
51		Global Sales	
52			
53			
54		<nav class="navbar" id="navbar"></nav>	
55			
56		Home	/a>
57	<a< td=""><td>class="nav-link href="#about">About</td></a<>	class="nav-link href="#about">About	scrollto"
58	<a< td=""><td>class="nav-link href="#values">Report</td></a<>	class="nav-link href="#values">Report	scrollto"
59	<a< td=""><td>class="nav-link href="#features">Dashboard</td></a<>	class="nav-link href="#features">Dashboard	scrollto"
60	<a< td=""><td>class="nav-link href="#services">Story</td></a<>	class="nav-link href="#services">Story	scrollto"
61	<a< td=""><td>class="nav-link</td><td>scrollto"</td></a<>	class="nav-link	scrollto"
hre	ef="#contac	ct">Contact	

```
62
                <i class="bi bi-list mobile-nav-toggle"></i>
 63
                </nav>
 64
                <!-- .navbar -->
 65
 66
                </div>
 67
                </header>
                <!-- End Header -->
 68
 69
                            <!-- ===== Hero Section ====== -->
70
                            <section id="hero" class="hero d-flex align-itemscenter">
71
72
                            <div class="container">
73
                            <div class="row">
74
                            <div class="col-lg-6 d-flex flex-column justifycontent-center">
                            <h1 data-aos="fade-up">Global Sales Data
75
    Analytics</h1>
```

```
<h2 data-aos="fade-up" data-aos-delay="400">
76
77
                             We offer modern solutions for growing your Sales
                             </h2>
78
79
                             <div data-aos="fade-up" data-aos-delay="600">
80
                             <div class="text-center text-lg-start">
81
                             <a
82
                             href="#about"
83
                             class="btn-get-started scrollto d-inlineflex align-items-center
                             justify-content-center align-selfcenter"
84
                             >
85
                             <span>Get Started</span>
86
                             <i class="bi bi-arrow-right"></i>
87
                             </a>
                             </div>
88
89
                             </div>
                             </div>
90
91
                             <div
92
                             class="col-lg-6 hero-img"
93
                             data-aos="zoom-out"
                             data-aos-delay="200"
94
95
                             >
                             <img src="assets/img/hero-img.png" class="imgfluid" alt=""
96
                             /> 97
                                        </div>
98
               </div>
99
               </div>
100
               </section>
101
               <!-- End Hero -->
102
103
                               <main id="main">
                               <!-- ===== About Section ====== -->
104
```

105	<section class="about" id="about"></section>
106	<div class="container" data-aos="fade-up"></div>
107	<div class="row gx-0"></div>
108	<div< td=""></div<>
109	class="col-lg-6 d-flex flex-column justifycontent-center"
110	data-aos="fade-up"
111	data-aos-delay="200"
112	>
113	<div class="content"></div>
114	<h3>Global Sales Data Analytics</h3>
115	<h2>One way to measure performance is with sales</h2>
	analytics.
116	<
117	Global Sales covers all activities involved in selling a
118	product or service to a consumer or business.
119	
120	<
121	It is important for sales and marketing teams to review
	their
122	strategies and performance in order to make
	improvements.
123	
124	
125	Sales data analytics refers to the use of technology to
126	collect and use sales data to identify actionable insights. It
127	is used to identify, optimize, and increase sales. An
128	efficient sales model that generates higher revenue for the
129	business.
130	

```
131
                              </div>
132
                              </div>
133
134
                         <div
                         class="col-lg-6 d-flex align-items-center"
135
136
                         data-aos="zoom-out"
                         data-aos-delay="200"
137
138
                         <img src="assets/img/32-512.webp" class="imgfluid" alt="" />
139
140
                         </div>
141
                         </div>
                         </div>
142
                         </section>
143
144
                         <!-- End About Section -->
145
146
                                 <!-- ===== Counts Section ====== -->
                                 <section id="counts" class="counts">
147
148
                                 <div class="container" data-aos="fade-up">
149
                                 <div class="row gy-4">
150
                                 <div class="col-lg-3 col-md-6">
                                 <div class="count-box">
151
                                 <i class="bi bi-star-fill"></i>
152
153
                                 <div>
154
                                 <span
                                 data-purecounter-start="0"
155
156
                                 data-purecounter-end="12.6"
157
                                 data-purecounter-duration="1"
158
                                 class="purecounter"
159
                                 ></span>
160
                                 Sales(millions)
161
                                 </div>
```

<div class="col-lg-3 col-md-6"> <div class="count-box"></div></div>
<i class="bi bi-star-fill"></i>
<div></div>
<span< td=""></span<>
data-purecounter-start="0"
data-purecounter-end="1.6"
data-purecounter-duration="1"
class="purecounter"
>
Profit (millions)

179		
180	<div class="col-lg-3 col-md-6"></div>	
181	<div class="count-box"></div>	
182	<i class="bi bi-star-fill"></i>	
183	<div></div>	
184	<span< td=""><td></td></span<>	
185	data-purecounter-start="0"	
186	data-purecounter-end="17.86"	
187	data-purecounter-duration="1"	
188	class="purecounter"	
189	>	
190	Quantity (millions)	
191		
192		
193		
194		
195	<div class="col-lg-3 col-md-6"></div>	
196	<div class="count-box"></div>	
197	<i class="bi bi-star-fill"></i>	
198	<div></div>	
199	<span< td=""><td></td></span<>	
200	data-purecounter-start="0" 201 purecounter-end="1.6"	data-
202	data-purecounter-duration="1"	
203	class="purecounter"	
204	>	
205	Sales cost (millions)	
206		
207		
208		
209		

210	
211	
212	End Counts Section
213	
214	===== Values Section =====
215	<section class="values" id="values"></section>
216	<div class="container" data-aos="fade-up"></div>
217	<header class="section-header"></header>
218	<h2>Sales</h2>
219	Report
220	
221	<iframe< td=""></iframe<>
222	<pre>src="https://us1.ca.analytics.ibm.com/bi/?pathRef=.my_folder</pre>

 $s\%2 Fglobal sale\%2 FGlobal sales_Report\& close Window On Last View= true\& ui_app bar=false\& ui_navbar=false\& share Mode$

=embedded&action=edit"

223	width="1300"
224	height="1000"
225	frameborder="0"

226	gesture="media"
227	allow="encrypted-media"
228	allowfullscreen=""
229	>
230	
231 232	<pre><div class="row"> <div class="col-lg-4" data-aos="fade-up" dataaos-="" delay="200"></div></div></pre>
233	<div class="box"></div>
234	
235	<h3>Report</h3>
236	
237	sorting and organization of data, while analytics derive
238	insights from that data and often influence business
239	decisions.
240	
241	
242	

243	
244	<div< td=""></div<>
245	class="col-lg-4 mt-4 mt-lg-0"
246	data-aos="fade-up"
247	data-aos-delay="400"
248	>
249	<div class="box"></div>
250	<pre><img <="" alt="" class="img-fluid" pre="" src="assets/img/values-2.png"/></pre>
	/>
251	<h3>Stroy</h3>
252	
253	a methodology for communicating information,
	tailored to a
254	specific audience, with a compelling narrative.
255	
256	
257	
258	
259	<div< th=""></div<>

```
260
                              class="col-lg-4 mt-4 mt-lg-0"
261
                              data-aos="fade-up"
                             data-aos-delay="600"
262
263
                             >
264
                              <div class="box">
265
                              <img
                                         src="assets/img/values-3.png" class="img-fluid"
                             alt=""/>
266
                             <h3>Dashboard</h3>
267
                              >
                             a tool used to multi-task, organize, visualize, analyze, and
268
269
                             track data. View automatically updated data with interactive
270
                              charts, graphs and tables.
271
                              272
                              </div>
273
                              </div>
274
                              </div> 275
                                            </div>
276
             </section>
277
             <!-- End Values Section -->
278
279
                     <!-- ===== Features Section ====== -->
280
                     <section id="features" class="features">
281
                     <div class="container" data-aos="fade-up">
282
                     <header class="section-header">
283
                     <h2>Sales</h2>
284
                     Dashboard
                     </header>
285
286
                     <iframe
287
                     src="https://us1.ca.analytics.ibm.com/bi/?perspective=dashbo
                     ard&pathRef=.my folders%2Fglobalsale%2FGlobalsales Dashb
```

oard&closeWindowOnLastView=true&ui appbar=false&a

mp;

mp;m
ode=dashboard&subView=model000001847746ca80_0000000
0"
width="1200"
height="1000"
frameborder="0"
gesture="media"
allow="encrypted-media"
allowfullscreen=""
>
<div class="row"></div>
<div class="col-lg-6 mt-5 mt-lg-0 d-flex"></div>
<div class="row align-self-center gy-4"></div>
<div class="col-md-6" data-aos="zoom-out" data-aos-<="" td=""></div>
delay="200">
<div class="feature-box d-flex alignitems-center"></div>
<i class="bi bi-check"></i>

 $ui_navbar=false\& share Mode=embedded\& action=view\&a$

302	<h3>Segment Wise Sales , Profit And Quantity</h3>
303	
304	
305	
306	<div class="col-md-6" data-aos="zoom-out" data-aos-delay="300"></div>
307	<div class="feature-box d-flex alignitems-center"></div>
308	<i class="bi bi-check"></i>
309	<h3>Sales By Market</h3>
310	
311	
312	
313	<div class="col-md-6" data-aos="zoom-out" data-aos-<br="">delay="400"></div>
314	<div class="feature-box d-flex alignitems-center"></div>
315	<i class="bi bi-check"></i>
316	<h3>Sales By Sub Category And Sales By Region</h3>
317	
318	
319	
320	<div class="col-md-6" data-aos="zoom-out" data-aos-<br="">delay="500"></div>
321	<div class="feature-box d-flex alignitems-center"></div>
322	<i class="bi bi-check"></i>
323	<h3>Country Wise Sales Using Map Points</h3>
324	
325	

326	
327	<pre><div class="col-md-6" data-aos="zoom-out" data-aos-="" delay="600"></div></pre>
328	<div class="feature-box d-flex alignitems-center"></div>
329	<i class="bi bi-check"></i>
330	<h3></h3>
331	Sub Category Wise Sales And Profits Using Line And
	Bar
332	Chart
332 333	Chart
333	
333 334	
333 334 335	

339	<i class="bi bi-check"></i>
340	<h3></h3>
341	Sales Vs Profit Scatter Plot With Sub Categories And
342	Regions
343	
344	
345	
346	<div class="col-md-6" data-aos="zoom-out" data-aos-<="" td=""></div>
	delay="700">
347	<pre><div class="feature-box d-flex alignitems-center"></div></pre>
348	<i class="bi bi-check"></i>
349	<h3>Sales Dashboard</h3>
350	
351	
352	
353	
354	
355	<div class="col-lg-6 mt-5 mt-lg-0 d-flex"></div>
356	<div class="row align-self-center gy-4"></div>
357	<div class="col-md-6" data-aos="zoom-out" data-aos-<="" td=""></div>
	delay="200">
358	<div class="feature-box d-flex alignitems-center"></div>
359	<i class="bi bi-check"></i>
360	<h3>Regional Sales And Profit Forecast</h3>
361	
362	
363	
364	<div class="col-md-6" data-aos="zoom-out" data-aos-<="" td=""></div>
	delay="300">
365	<div class="feature-box d-flex alignitems-center"></div>

366	<i class="bi bi-check"></i>
367	<h3>Sales Forecast By Order</h3>
	Priority
368	
369	
370	
371	<div class="col-md-6" data-aos="zoom-out" data-aos-<="" td=""></div>
	delay="400">
372	<div class="feature-box d-flex alignitems-center"></div>
373	<i class="bi bi-check"></i>
374	<h3>Sales By Sub Category</h3>
Analytics	
375	
376	
377	
378	<div class="col-md-6" data-aos="zoom-out" data-aos-<="" td=""></div>
378	<div class="col-md-6" data-aos="zoom-out" data-aos-<br="">delay="500"></div>
378 379	
	delay="500">
379	<pre>delay="500"> <div class="feature-box d-flex alignitems-center"></div></pre>
379 380	<pre>delay="500"> <div class="feature-box d-flex alignitems-center"> <i class="bi bi-check"></i></div></pre>
379 380 381	<pre>delay="500"> <div class="feature-box d-flex alignitems-center"> <i class="bi bi-check"></i> <h3>Regional Quantity using Radar Chart</h3></div></pre>
379 380 381 382	<pre>delay="500"> <div class="feature-box d-flex alignitems-center"> <i class="bi bi-check"></i> <h3>Regional Quantity using Radar Chart</h3> </div></pre>
379 380 381 382 383	<pre>delay="500"> <div class="feature-box d-flex alignitems-center"> <i class="bi bi-check"></i> <h3>Regional Quantity using Radar Chart</h3> </div></pre>
379 380 381 382 383 384	<pre>delay="500"> <div class="feature-box d-flex alignitems-center"> <i class="bi bi-check"></i> <h3>Regional Quantity using Radar Chart</h3> </div> </pre>
379 380 381 382 383 384	<pre>delay="500"></pre>
379 380 381 382 383 384 385	<pre>delay="500"></pre>
379 380 381 382 383 384 385	<pre>delay="500"></pre>
379 380 381 382 383 384 385	<pre>delay="500"></pre>

390	
391	
392	<div class="col-md-6" data-aos="zoom-out" data-aos-<="" td=""></div>
	delay="600">
393	<div class="feature-box d-flex alignitems-center"></div>
394	<i class="bi bi-check"></i>
395	<h3>Sales Vs Profit By Countries</h3>
396	
397	
398	
399	<div class="col-md-6" data-aos="zoom-out" data-aos-<="" td=""></div>
	delay="700">
400	<div class="feature-box d-flex alignitems-center"></div>
401	<i class="bi bi-check"></i>
402	<h3>Country Wise Sales Vs Profit Using Word</h3>
	Cloud
403	
404	
405	
406	
407	
408	/ row
409	
410	
411	End Features Section
412	
413	===== Services Section ======
414	<section class="services" id="services"></section>
415	<div class="container" data-aos="fade-up"></div>
416	<header class="section-header"></header>

417	<h2>Sales</h2>
418	Story
419	
420	<iframe< td=""></iframe<>

421 src="https://us1.ca.analytics.ibm.com/bi/?perspective=story&

amp;pathRef=.my_folders%2Fglobalsale%2FNew%2Bstory&clos e WindowOnLastView=true&ui_appbar=false&ui_navbar=fa ls e&shareMode=embedded&action=view&sceneId=m odel00

0001847a103dc5_00000000&sceneTime=600"

422	width="1300"
423	height="1000"
424	frameborder="0"
425	gesture="media"
426	allow="encrypted-media"
427	allowfullscreen=""
428	>
429	
430	
431	End Services Section

432					
433	===== F.A.Q Section ======				
434	<section class="faq" id="faq"></section>				
435	<div class="container" data-aos="fade-up"></div>				
436	<header class="section-header"></header>				
437	<h2>F.A.Q</h2>				
438	Frequently Asked Questions				
439					
440					
441	<div class="row"></div>				
442	<div class="col-lg-6"></div>				
443	F.A.Q List 1				
444	<div <="" class="accordion accordion-flush" th=""></div>				
	id="faqlist1">				
445	<div class="accordion-item"></div>				
446	<h2 class="accordion-header"></h2>				
447	<button< td=""></button<>				
448	class="accordion-button collapsed"				
449	type="button"				
450	data-bs-toggle="collapse"				
451	data-bs-target="#faq-content-1"				
452	>				
453	When does the issue occur?				
454					
455					
456	<div< td=""></div<>				
457	id="faq-content-1"				
458	class="accordion-collapse collapse"				
459	data-bs-parent="#faqlist1"				
460	>				
461	<div class="accordion-body"></div>				

462	Consumers shopping patterns have changed since the
463	pandemic, with more emphasis on ecommerce and
	contactless
464	payments.
465	
466	
467	
468	
469	<div class="accordion-item"></div>
470	<h2 class="accordion-header"></h2>
471	<button< td=""></button<>
472	class="accordion-button collapsed"
473	type="button"
474	data-bs-toggle="collapse"
475	data-bs-target="#faq-content-2"
476	>
477	Where does the issue occur?
478	
479	
480	<div< td=""></div<>
481	id="faq-content-2"
482	class="accordion-collapse collapse"
483	data-bs-parent="#faqlist1"
484	>
485	<div class="accordion-body"></div>
486	The issue occurs on online shopping.
487	
488	
489	
490	

491	<div class="accordion-item"></div>
492	<h2 class="accordion-header"></h2>
493	<button< td=""></button<>
494	class="accordion-button collapsed"
495	type="button"
496	data-bs-toggle="collapse"
497	data-bs-target="#faq-content-3"
498	>
499	Why is it important that we fix the problem?
500	
501	
502	<div< td=""></div<>
503	id="faq-content-3"
504	class="accordion-collapse collapse"
505	data-bs-parent="#faqlist1"
506	>
507	<div class="accordion-body"></div>
508	Data-driven sales organizations now operate more
	like
509	scientists and strategists, and the results speak for
510	themselves.
511	
512	
513	
514	
515	
516	
517 	<div class="col-lg-6"></div>
518	F.A.Q List 2

519	<div class="accordion accordion-flush" id="faqlist2"></div>			
520	<div class="accordion-item"></div>			
521	<h2 class="accordion-header"></h2>			
522	<button< td=""></button<>			
523	class="accordion-button collapsed"			
524	type="button"			
525	data-bs-toggle="collapse"			
526	data-bs-target="#faq2-content-1"			
527	>			
528	Who does the problem affect??			
529				
530				
531	<div< td=""></div<>			
532	id="faq2-content-1"			
533	class="accordion-collapse collapse"			
534	data-bs-parent="#faqlist2"			
535	>			
536	<div class="accordion-body"></div>			
537	It will affect both the customer and the store.			
538				
539				
540				
541				
542	<div class="accordion-item"></div>			
543	<h2 class="accordion-header"></h2>			
544	<but> <br <="" td=""/></but>			
545	class="accordion-button collapsed"			
546	type="button"			
547	data-bs-toggle="collapse"			

548	data-bs-target="#faq2-content-2"
549	>
550	What are the boundaries of the problem?
551	
552	
553	<div< td=""></div<>
554	id="faq2-content-2"
555	class="accordion-collapse collapse"
556	data-bs-parent="#faqlist2"
557	>
558	<div class="accordion-body"></div>
559	Low data proficiency among sales will greatly limits
	the
560	value of analytical insights and inhibits data-driven
561	decision making.
562	
563	
564	
565	
566	<div class="accordion-item"></div>
567	<h2 class="accordion-header"></h2>
568	<button< td=""></button<>
569	class="accordion-button collapsed"
570	type="button"
571	data-bs-toggle="collapse"
572	data-bs-target="#faq2-content-3"
573	>
574	What is the issue?
575	
576	

577		<div< td=""><td></td><td></td><td></td></div<>			
578		id="faq2-co	ntent-3"		
579		class="acco	rdion-collapse	collapse"	
580		data-bs-par	ent="#faqlist2		
581		>			
582		<div class="</td><td>accordion-boo</td><td>dy"></div>			
583	Cannot products an	d the ones tha	ntidentify	most	profitable
584	aren't		moving,	most	profitable
custome	ers, and potential				
585		sales opport	tunities.		
586					
587					
588					
589					
590					
591		592			
593					
594	End F.A.Q Section</td <td>ı></td> <td></td> <td></td> <td></td>	ı>			

595	
596	====== Contact Section ======
597	<section class="contact" id="contact"></section>
598	<div class="container" data-aos="fade-up"></div>
599	<header class="section-header"></header>
600	<h2>Contact</h2>
601	Contact Us
602	
603	
604	<div class="row gy-4"></div>
605	<div class="col-lg-6"></div>
606	<form< td=""></form<>
607	action="forms/contact.php"
608	method="post"
609	class="php-email-form" 610 >
611	<div class="row gy-4"></div>
612	<div class="col-md-6"></div>
613	<input< td=""></input<>
614	type="text"
615	name="name"
616	class="form-control"
617	placeholder="Your Name"
618	required
619	/>
620	
621	
622	<div class="col-md-6"></div>
623	<input< td=""></input<>
624	type="email"
625	class="form-control"
626	name="email"

627	placeholder="Your Email"
628	required
629	/>
630	
631	
632	<div class="col-md-12"></div>
633	<input< td=""></input<>
634	type="text"
635	class="form-control"
636	name="subject"
637	placeholder="Subject"
638	required
639	/>
640	
641	
642	<div class="col-md-12"></div>
643	<textarea< td=""></textarea<>
644	class="form-control"
645	name="message"
646	rows="6"
647	placeholder="Message"

```
648
                                    required
649
                                    ></textarea>
                                    </div>
650
651
652
                                    <div class="col-md-12 text-center">
653
                                    <div class="loading">Loading</div>
654
                                    <div class="error-message"></div>
655
                                    <div class="sent-message">
656
                                    Your message has been sent. Thank you!
657
                                    </div>
658
659
                               <button type="submit">Send
   Message</button>
660
                              </div>
661
                              </div>
                              </form>
662
663
                              </div>
                               </div> 665
664
                                              </div>
             </section>
666
             <!-- End Contact Section -->
667
             </main>
668
669
             <!-- End #main -->
670
671
                               <!-- ===== Footer ====== -->
                               <footer id="footer" class="footer">
672
                               <div class="footer-top">
673
674
                               <div class="container">
                               <div class="row gy-4">
675
676
                               <div class="col-lg-5 col-md-12 footer-info">
                              <a href="index.html" class="logo d-flex align-items-center">
677
```

```
<img src="assets/img/logo.png" alt="" />
678
679
                             <span>Global Sales</span>
                             </a>
680
                             We offer modern solutions for growing your Sales.
681
682
                              <div class="social-links mt-3">
683
                              <a
                             href="https://github.com/IBM-EPBL/IBM-
684
   Project-41948-1660646436"
                             class="github"
685
                             ><i class="bi bi-github"></i
686
687
                             ></a>
                             </div>
688
689
                             </div>
690
                             <div class="col-lg-2 col-6 footer-links">
691
                             <h4>Useful Links</h4>
692
693
                              694
```

```
695
                            <i class="bi bi-chevron-right"></i> <a
                            href="#home">Home</a>
696
                            697
                            698
                            <i class="bi bi-chevron-right"></i>
                            <a href="#about">About us</a>
699
700
                            701
702
                            <i class="bi bi-chevron-right"></i>
703
                            <a href="#values">Report</a>
704
                            705
                            706
                            <i class="bi bi-chevron-right"></i>
                            <a href="#features">Dashboard</a>
707
708
                            709
                            <i class="bi bi-chevron-right"></i>
710
711
                            <a href="#services">Story</a>
712
                            713
                            </div>
714
715
716
                         <div
717
                         class="col-lg-3 col-md-12 footer-contact text-center text-md-
                         start"
718
                         >
719
                         <h4>Team Details</h4>
720
                         >
721
                         Team Id: PNT2022TMID41225 <br />
722
                         Dharmeshprasad R<br />
```

```
723
                           Suriya prakash G<br/>
                           Aravindhan T<br/>
724
                           Tamilvanan N<br />
725
                           Muthamil selvan MS<br />
726
                           727
                           </div>
728
729
                           </div>
                           </div>
730
                           </div>
731
732
733
                   <div class="container">
                  <div class="copyright">
734
                  © Copyright
735
   <strong><span>PNT2022TMID41225</span></strong</pre>
                  >. All Rights Reserved
736
                  </div>
737
                   </div>
738
739
                   </footer>
740
                   <!-- End Footer -->
741
742
             <a
             href="#"
743
             class="back-to-top d-flex align-items-center justifycontent-center"
744
```

```
745
             ><i class="bi bi-arrow-up-short"></i
             ></a>
746
 747
 748 <!-- Vendor JS Files --> 749 <script
    src="assets/vendor/purecounter/purecounter vanilla.js"></scr</pre>
    ipt>
 750
            <script src="assets/vendor/aos/aos.js"></script</pre>
 751
            <script
    src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></s</pre>
    cript>
 752
            <script
    src="assets/vendor/glightbox/js/glightbox.min.js"></script>
 753
            <script
                                                     src="assets/vendor/isotope
    layout/isotope.pkgd.min.js"></script>
 754
            <script
                                            src="assets/vendor/swiper/swiper
    bundle.min.js"></script>
                                                  src="assets/vendor/php
 755
            <script
                                                                                  - email
    form/validate.js"></script>
 756
 757
            <! --
                   Main JS File
            <script src="assets/js/main.js"></script</pre>
 758
 759
         </body >
 760 </html >
 761
```

13.2 Github & Project Demo Link:

GitHub:

Link: <u>IBM-EPBL/IBM-Project-30492-1660147414</u>: <u>Global Sales Data Analytics (github.com)</u> Demo link: <u>IBM-EPBL/IBM-Project-30492-1660147414</u>: <u>Global Sales Data Analytics</u> (github.com)