### Team id: PNT2022TMID03314 Project Report Format

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### 1. INTRODUCTION

### 1.1 Project Overview

DHL is a German logistics company providing courier, package delivery and express mail service, which is a division of the German logistics firm Deutsche Post. The company was primarily interested in offshore and intercontinental deliveries, but the success of FedEx prompted DHL's own domestic (intra-US) expansion starting in 1983. In 1998, Deutsche Post began to acquire shares in DHL. It reached controlling interest in 2001, and acquired all outstanding shares by December 2002. DHL provides information about Objects, Services, pickups and destination details. We need to analyze the given data to improve the process of business.

#### 1.2 Purpose

To provide Analytics to improve New Marks and grow the business. Visualizing the analyzed charts in the dashboard and Creating the website to display the dashboard. Increase the agility of your domestic ground distribution by leveraging DHL to plan and execute the delivery of your goods to point of storage, use or sale, using fixed, dynamic or pre-scheduled routes

#### 2. LITERATURE SURVEY

### 2.1 Existing problem

Optimal decisions for operations management of BDAR: A military industrial logistics data analytics perspective. The purpose of this paper is to present a systematic procedure of optimal decisions for operations management of BDAR and form a framework of military industrial logistics data analytics. Developing a systematic procedure of optimal decisions for operations management of BDAR. Difficult to Collection the war statistics from the historical real-world combat data

A data-analytics approach to identifying hidden critical suppliers in supply networks: Development of nexus supplier index. In this study, we explore the identification and categorization of nexus suppliers. Based on the theory of nexus supplier and data envelopment analysis (DEA), we propose a data-analytics approach to compute what we call Nexus Supplier Index (NSI). It is a measure that combines various network centrality measures.

Data analytics-enable production visibility for Cyber-Physical Production Systems. In this paper, a Cyber-Physical Production System (CPPS) using data analytics is proposed to enable production visibility. Firstly, this study uses data stream processing approaches to clean redundant data efficiently. Secondly, a Bayesian inference engine, which is trained by mining the historical data offline, is employed to identify the accuracy of an RFID-captured event.

Data analytics and performance. The moderating role of intuition-based HR management in major league baseball. We propose that due to the decreased spectrum of available strategies and simplified mechanisms of value creation associated with a greater reliance on data-driven decisions in highly competitive and specialized industries, the positive effects of social capital for data analytics on firm performance will diminish when firms predominantly adopt data-driven decision-making in deploying human resources.

Data analytic approach for bankruptcy prediction. Bankruptcy prediction problem has been intensively studied over the past decades. In this study, we focused on solving the skewness which is a characteristic of financial data. By solving this problem, we obtained

17% average improvement in AUC over existing models. To address the second shortcoming, we analyze the importance of features identified by the XGBoost model.

Data analytics for oil sands subcool prediction — a comparative study of machine learning algorithms. This work focuses on developing a subcool model based on industrial datasets using deep learning and several other widely-used machine learning methods. Furthermore, this work compares and discusses the outof-sample performance of different machine learning algorithms using industrial datasets.

#### 2.2 References

- 1. Optimal decisions for operations management of BDAR: A military industrial logistics data analytics perspective - XiongLi /2019
- 2. A data-analytics approach to identifying hidden critical suppliers in supply networks: Development of nexus supplier index Benjamin B.M /2018
- **3.** Data analytics-enable production visibility for Cyber-Physical Production Systems-Pengcheng Fang, JianjunYang/2020
- **4.** Data analytics and performance: The moderating role of intuition-based HR management in major league baseball **J**aemin Kim, Clay Dibrell/202
- 5. Data analytic approach for bankruptcy prediction H.Son, C.Hyun /2019
- 6. Data analytics for oil sands subcool prediction a comparative study of machine learning algorithms Nabil Magbool Jan, Chaoqun Li /2018

#### 2.3 Problem Statement Definition

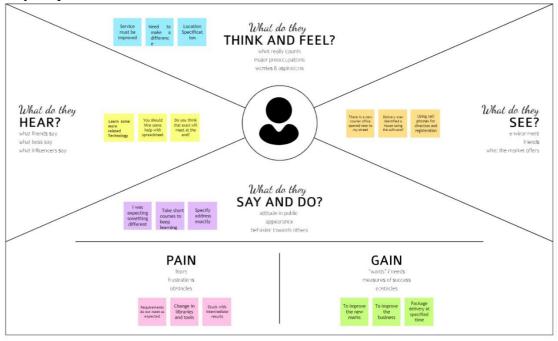
DHL is an international Umbrella brand and trademark for the courier, package delivery, and express mail service which is a division of the German logistics firm Deutsche Post. Our goal is to provide analytics to improve the business.





### 3. IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas



# 3.2 Ideation & Brainstorming

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



#### Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

(1) 10 minutes

# A Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

# B Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.

# C Learn how to use the facilitation tools

Use the Facilitation Superpowers to run a happy and productive session:

Open article →



#### Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

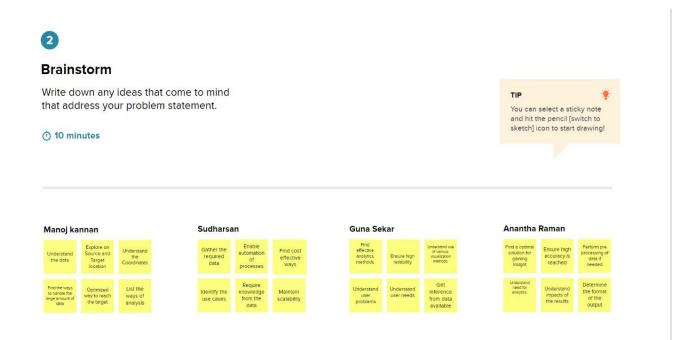
① 5 minutes

#### PROBLEM

To Provide analytics to Improve the new marks and grow the business



### Step-2: Brainstorm, Idea Listing and Grouping





#### Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

1 20 minutes

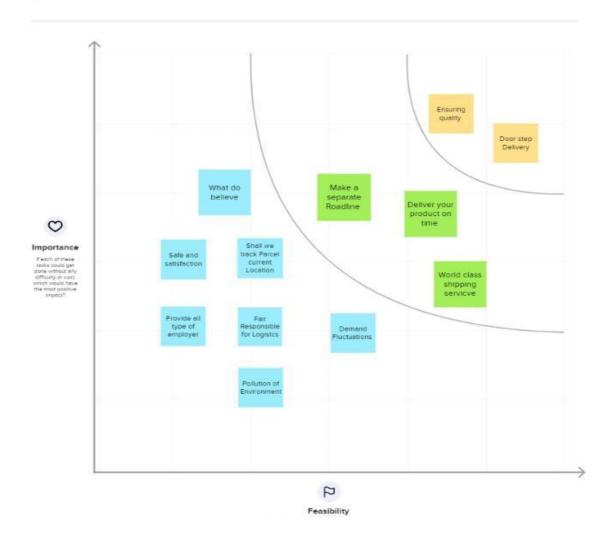


# Step-3: Idea Prioritization

#### Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

① 20 minutes



# 3.3 Proposed Solution

s.no	Parameter	Description
1	Problem Statement (Problem to be solved)	DHL is an international Umbrella brand and trademark for the courier, package delivery, and express mail service which is a division of the German logistics firm Deutsche Post. The company

		DHL itself was founded in San Francisco, USA, in 1969 and
		expanded its service throughout the world by the late 1970s. The company group delivers over 1.6 billion parcels per year. Our goal is to improve the New marks and grow the business. To provide Analytics to improve New Marks and grow the business.
2	Idea / Solution description	Perform the coding & solutioning, acceptance testing, performance testing based as per the Time limit.
3	Novelty / Uniqueness	Analise the data collected and apply the suitable machine learning model
4	Social Impact / Customer Satisfaction	Optimized way for Domestic and international parcel delivery to Target Location
5	Business Model (Revenue Model)	Sales revenue model that makes money by mail service, product delivery
6	Scalability of the Solution	Providing analysis that provide insights how it meets the user needs

#### 3.4 Problem Solution fit

Project Title: Data analytics for DHL Logistics Facilities Project Design Phase-I - Solution Fit Template Team ID: PNT2022TMID17919 1. CUSTOMER SEGMENT(S) 6. CUSTOMER CONSTRAINTS 5. AVAILABLE SOLUTIONS Explore AS, differentiate Customers are the important part of the sector who apply for the delivery and taking delivery It was difficult to devote sufficient resources to running There may occurs situations such as Labor and Shipping its domestic supply chain effectively and to delivering the high levels of service expected by its customers in There may occurs studious such as Lauor and Simpping Shortages, Managing Complex systems, Handling Customer expectations. Local government health guidelines also play a part in restricting workforce numbers. For example, China has instituted a mandatory who apply for the delivery and taking delivery of their purchases in different ways, requiring not just multi-channel but omni-channel strategies. They want products to be produced and supplied sustainably, and to pay less for them. And emerging markets are no longer just Japan. To accomplish all of these objectives, the manufacturer chose to outsource the management of its supply chain operations in Japan to a single third-party seven-week quarantine for returning cargo crews. Customers will always want to know where their products are and when they will arrive. Speed and convenience are key performance indicators for logistics (3PL) provider that would operate as the technology company's Lead Logistics Provider (LLP). To centers of production; they are becoming major areas of consumption too. keep track of the target location and identify the better way to reach them with known vehicle and short route 2. JOBS-TO-BE-DONE / PROBLEMS 9. PROBLEM ROOT CAUSE 7. BEHAVIOUR To accomplish all of these objectives, the To identify Type of service The COVID-19 pandemic has put health and manufacturer chose to outsource the management safety at the forefront of worker concerns. Surges in late 2021 and early 2022 have To collect the required data of its supply chain operations in Japan to a single third-party logistics (3PL) provider that would placed much of the personnel in quarantine. This problem has left their other coworkers To visualize the data operate as the technology company's Lead Logistics Provider (LLP). The company sought a To analyse the source and overworked and severely understaffed to global LLP that in addition to performing handle the massive influx of shipments. target location specified logistics services could also apply world-class expertise, knowledge, and oversight > To identify the top contributor to the entire domestic logistics operation. The over the Country/City manufacturer selected DHL Supply Chain as its strategic LLP partner 10. YOUR SOLUTION SL 8. CHANNELS of BEHAVIOUR Customers having problems with current Using the regression analysis to predict the target location. situation Customers can give feedback and contact the service manager or Regression analysis is a powerful statistical method that Trying to surpass opponent companies allows you to examine the relationship between two or more particular authorized person through the mail service, chatbot or Learning strategies to increase business contact number. variables of interest. We can keep track of parcel or mail Heavy loss in business Customers in online represents the most delivered item service using the 10 digit tracking number. If you do not have a tracking number, we advise you to contact your

shipper. However, if you have other shipping reference

numbers, they may work using shipment tracking systems of the specific business unit in charge of the shipment

and charges that represents the service for the item Customers in offline can post the object with seal of the

particular branch and address specified delivered at the

### 4. REQUIREMENT ANALYSIS

4. EMOTIONS: BEFORE / AFTER

or less valuable.

Customer Lifetime Value (CLTV) is the total revenue a customer generates throughout his or her period of association with an

organization. It is relevant metric because it helps ecommerce business owners know whether their customers are becoming more

#### 4.1 Functional requirement

FR No.	Functional Requirement	Sub Requirement (Story / Sub-Task)					
	(Epic)						
FR-1	User Registration	Registration through any google account or social media accounts.					
FR-2	User Confirmation	Confirmation via Email					
		Confirmation via OTP					

EM

FR-3	Dataset	The DHL_Facilities.csv record are collected as a
		dataset and upload to Cognos analytics
FR-4	Prepare/Analyse	The dataset is moved around to prepare and analyse
		using Cognos
FR-5	Exploration	The data are explored using logistics dataset by
		Cognos
FR-6	Dashboard	The Prepared and Explored data are Visualize and
		created in different type of dashboards. i.e., charts,
		graphs, tree, reports, summary, etc

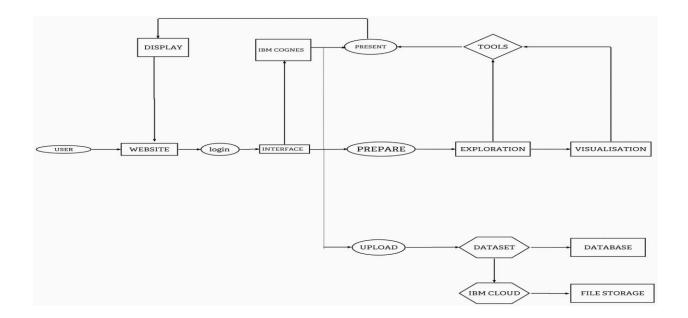
# **4.2 Non-Functional requirements**

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	No prior experience required to use the dashboard. People with basic understanding can use the system.
NFR-2	Security	Only registered user can use this application.
NFR-3	Reliability	The Analytics system ensures the reliability
NFR-4	Performance	Gets updated regularly to improve the performance of the application.
NFR-5	Availability	The availability of dataset must be constrained for accurate data.
NFR-6	Scalability	Any kind of data can be explored and the system is quiet expandable.

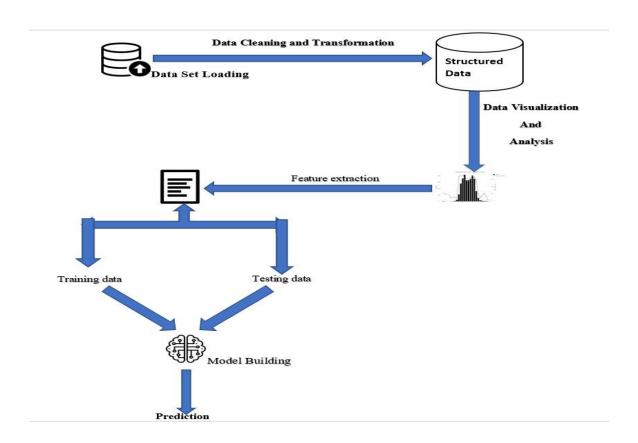
### 5. PROJECT DESIGN

# **5.1 Data Flow Diagrams**

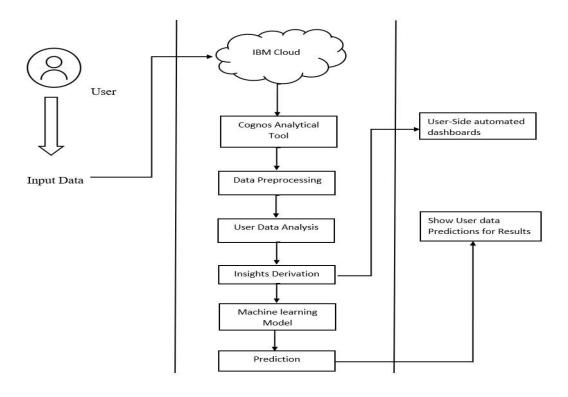
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored



### **5.2 Solution Architecture**



# **Technology Architecture:**



**Table-1 : Components & Technologies:** 

S. No	Component	Description	Technology
1	IBM Cognos	To perform data	IBM Cognos
	Analytics	analysis(Visualization	Tool
		chart) on the user data	
2	Data	To prepare the data	Python
	Preprocessing	for the analysis and	
		further process	
3	Machine	To build the	Jupyter
	Learning Model	machine learning	Notebook
		model for classification	
4	Prediction	To do the predictive	Analysis Model
		analysis on the input	
		data	
5	Dashboard	Graphical User	IBM Cognos
		Interface that provides	Dashboard
		analysis on user data	

# **Table-2: Application Characteristics:**

# 5.3 User Stories

User Type	Function al Requirem ent (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
n the ap		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-1	
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	I can register & access the dashboard with Gmail Login	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can login into the application with Gmail login	High	Sprint-1
	Dashboard	USN-6	As a user I can use the methods provided in the Dashboard.	I can access the dashboard with various methods	High	Sprint-2
Customer Care Executiv e	Login	USN-7	As a Customer Care Executive, I can log into the application by entering my Executive email Id & password	I can login with my credentials	Medium	Sprint-1
	Service	USN-8	As a Customer Care Executive, I can answer user's queries	I can give the solutions to the user's queries	High	Sprint-3
Administrato r	Login	USN-9	As an Administration, I can log into the application by entering my Administer email Id & password	I can login with my credentials	High	Sprint-1

	Access	USN-10	As an admin, I can make changes to the interface according the needs	I have a full access to the application	High	Sprint-3
Cus tom er tool s	Tools	USN-11	I can perform analysis by tools (Cognos and with ML)	I have an ease of Accessing tools.	High	Sprint 1

# 6. PROJECT PLANNING & SCHEDULING

# **6.1 Sprint Planning & Estimation**

Sprint	Functional User User Story / Task Requiremen Story t (Epic) Numb er				Priority	Team Members
Sprint-1	Login	USN-1	As a user, I can register & log into the application by entering email & password	10	High	G Naveen Kumar
Sprint-1	Verify	USN-2	As a user, I can verify the email with given otp and check for correct subscription access	10	High	G Naveen Kumar
Sprint-2	Collect Data	USN-3	As an admin I can define questions & goals then collect data & provide the dataset in IBM Cognos analytics	10	High	R Ganesh
Sprint-2	Prepare & Explore	USN-4	As an admin I can prepare, explore & present the dataset in IBM Cognos analytics	10	High	R Ganesh
Sprint-3	Analyze	USN-5	As an admin, I will analyze the given dataset (Data preprocessing)	10	High	S Tharun
Sprint-3	Predict	USN-6	As an admin, I will predict the length of stay (Prediction)	10	High	S Tharun
Sprint-4	Visualization	USN-7	As a user, I can select the visualization type like Report, Dashboard and story (Creating visualization)	7	Medium	K P Kiran Kumar

Sprint-4	Dashboard	USN-8	As a user, I can upload the datasets to the dashboard and view visualizations	8	High	K P Kiran Kumar
Sprint-4	Communicate	USN-9	As an admin, I can communicate to the client for user queries and visualize the best dashboards in any platform as a user expected	5	Low	K P Kiran Kumar

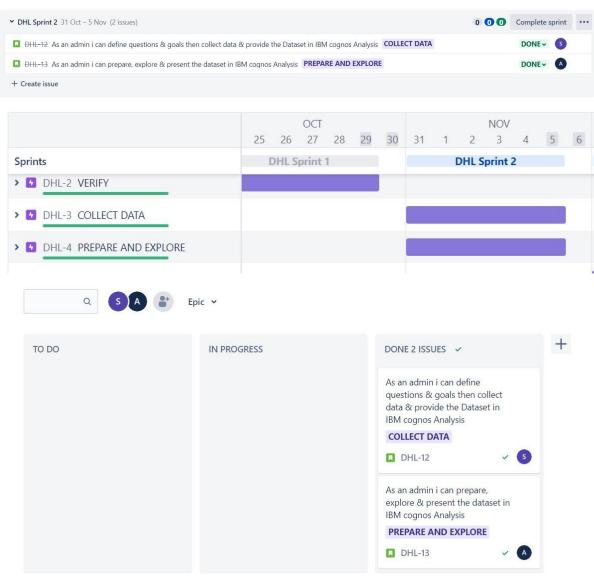
6.2 Sprint Delivery Schedule

Sprint	Total Story Point s	Duratio n	Sprint Start Date	Sprint End Date (Planned	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
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

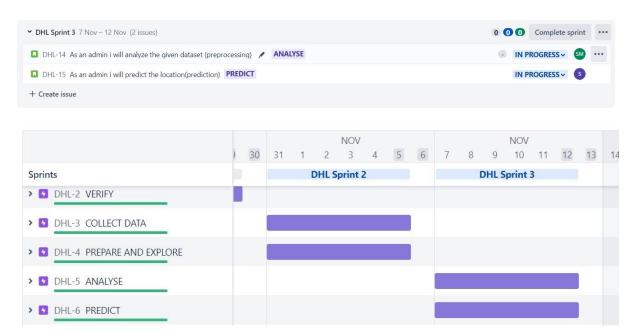
# 6.3 Reports from JIRA SPRINT 1

			OCT							OCT			
	18	19	20	21	22	23	24	25	26	27	28	29	30
Sprints					DHL Sprint 1								
> • DHL-1 LOGIN													
> OHL-2 VERIFY													

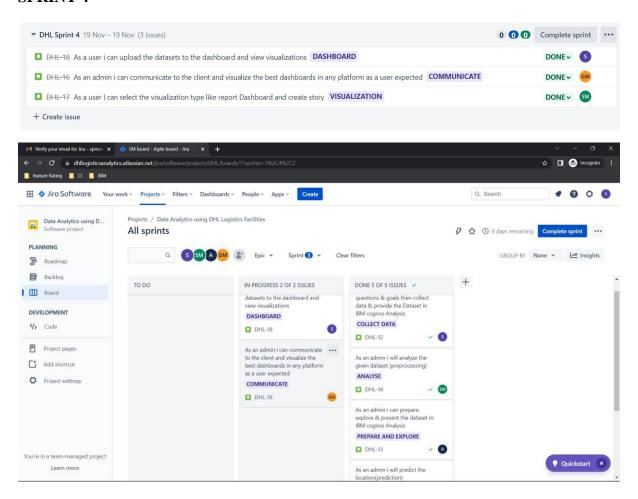
### **SPRINT 2**



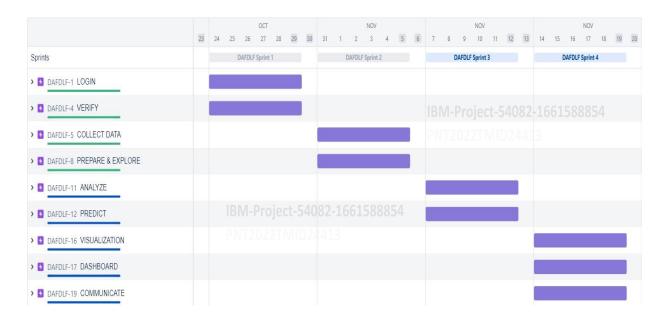
# **SPRINT 3**



#### **SPRINT 4**



#### **Burndown chart:**



# **CODING & SOLUTIONING (Explain the features added in the project along with code)**

#### 6.4 Feature 1

```
<!DOCTYPE html>
<html>
<head>
<title>DHL Logistics Facilities</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
k rel="stylesheet" href="https://fonts.googleapis.com/css?family=Oswald">
k rel="stylesheet" href="https://fonts.googleapis.com/css?family=Open Sans">
link rel="stylesheet"
                            href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/font-
awesome.min.css">
<style>
h1,h2,h3,h4,h5,h6 {font-family: "Oswald"}
body {font-family: "Open Sans"}
</style>
</head>
<body class="w3-light-grey">
<!-- Navigation bar with social media icons -->
<div class="w3-bar w3-black w3-hide-small">
<div align = "left">
 <h2 class = w3-xlarge>DHL Logistics Facilities Analysis</h2></div>
 <div class="w3-right w3-hide-small">
   <a href= "Ind.html" class="w3-bar-item w3-button">Home</a>
   <a href= "data.html" class="w3-bar-item w3-button">Prediction</a>
   <a href= "dashboard.html" class="w3-bar-item w3-button">DashBoard</a>
</div>
</div>
<!-- w3-content defines a container for fixed size centered content,
and is wrapped around the whole page content, except for the footer in this example --> < div
class="w3-content" style="max-width:1600px">
 <!-- Header -->
 <header class="w3-container w3-center w3-padding-48 w3-white">
  <h6>Welcome
                              Analytics
                                               <span
                                                        class="w3-tag">DHL
                   to
                        the
                                          of
                                                                               Logistics
Facilities</span></h6>
```

```
</header>
 <!-- Grid -->
 <div class="w3-row w3-padding w3-border">
  <!-- Blog entries -->
  <div class="w3-col 18 s12">
   <!-- Blog entry -->
   <div class="w3-container w3-white w3-margin w3-padding-large">
    <div class="w3-center">
     <h3>DHL Logistics Facilities Data Visualization</h3>
</div>
    <div class="w3-justify">
         <iframe
src="https://us3.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.public_fold
ers%2FDHL_Logistics%2FDHL_DashBoard&closeWindowOnLastView=true&ui
_appbar=false&ui_navbar=false&shareMode=embedded&action=view&
mode=dashboard&subView=model0000018378e9c01e 00000000"
                                                                    width="900"
height="500"
                 frameborder="0"
                                     gesture="media"
                                                         allow="encrypted-media"
allowfullscreen=""></iframe>
    </div>
   </div>
   <hr>
  <!-- END BLOG ENTRIES -->
  </div>
  <!-- About/Information menu -->
  <div class="w3-col 14">
   <!-- About Card -->
   <div class="w3-white w3-margin">
    <div class="w3-container w3-black">
     <h4>Data Visualization Charts Tab Names : </h4>
     >
          \langle ol \rangle
          Area Chart Showing City Wise DHL Deliveries
          Top N Deliveries By State And City
          Showing Top 3 State Deliveries
          Total Number of Objects IDs Serviced by DHFL - Summary Card
          Zip Code wise Number of Objects Serviced
          Mach Status Filters
          Placement Filters
```

```
Dashboard Showing Delivery Stats Using Donut Charts
           Placement Filters
          Mach Status Filters
          Location Ty Filters
          Location Th Filters
          Zip Code wise Number of Objects Serviced
          Top Contributor Countries / Cities - Geo Map display
          </div>
   </div>
   <hr>
 <!-- END GRID -->
 </div>
<!-- END w3-content -->
</div>
<!-- Footer -->
<footer class="w3-container w3-dark-grey" style="padding:32px">
 <a href="#" class="w3-button w3-black w3-padding-large w3-margin-bottom"><i class="fa fa-arrow-
up w3-margin-right"></i>To the top</a>
 Powered by PNT2022TMID17919
</footer>
</body>
</html>
<!---====Prediction======--!>
<!DOCTYPE html>
<html>
<head>
<title>Data Analytics for DHL Logistics Facilities</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
k rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
k href="https://fonts.googleapis.com/css?family=Raleway" rel="stylesheet" type="text/css">
k rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
k rel="stylesheet" href="https://fonts.googleapis.com/css?family=Oswald">
k rel="stylesheet" href="https://fonts.googleapis.com/css?family=Open Sans">
link rel="stylesheet"
                         href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/font-
awesome.min.css">
```

```
<style>
body {font-family: "Raleway", Arial, sans-serif}
.w3-row img {margin-bottom: -8px}
body {font-family: Arial, Helvetica, sans-serif;}
* {box-sizing: border-box;}
input[type=text], select, textarea {
 width: 100%;
padding: 12px; border:
1px solid #ccc; border-
radius: 4px; box-
sizing: border-box;
margin-top: 6px;
 margin-bottom: 16px;
resize: vertical;
}
input[type=submit] {
background-color: #04AA6D;
color: white; padding: 12px
20px; border: none; border-
radius: 4px; cursor: pointer;
}
input[type=submit]:hover { background-
color: #45a049;
}
.container { border-radius:
5px; background-color:
#f2f2f2; padding: 20px;
}
</style>
</head>
<body>
<div class="w3-bar w3-black w3-hide-small">
<div align = "left">
 <h2 class = w3-xlarge>DHL Logistics Facilities Analysis</h2></div>
 <div class="w3-right w3-hide-small">
   <a href= "Ind.html" class="w3-bar-item w3-button">Home</a>
   <a href= "data.html" class="w3-bar-item w3-button">Prediction</a>
```

```
<a href= "dashboard.html" class="w3-bar-item w3-button">DashBoard</a>
    <!--<a href= "Ind.html" class="w3-bar-item w3-button">Home</a>-->
  </div>
</div>
  <div class="container" data-aos="fade-up">
   <div class="predictform">
    <h2>Predict</h2>
   <form action="{{ url_for('result') }}" method="POST" >
     <label for="X-COORDINATE">ENTER THE X : </label>
     <input type="text" name="X" id="X" required><br/><br/>
     <label for="Y-COORDINATE">ENTER THE Y: </label>
     <input type="text" name="Y" id="Y" required><br/><br/>
     <label for="OBJECTID">ENTER THE OBJECTID : </label>
     <input type="text" name="objectid" id="objectid" required><br/><br/>
     <label for="FEATUREID">ENTER THE FEATURE ID : </label>
     <input type="text" name="featureid" id="featureid" required><br/>br/><br/>
     <label for="ZIPCODE">ENTER THE ZIP CODE : </label>
     <input type="text" name="zipcode" id="zipcode" required><br/>
     <label for="LATITUTDE">ENTER THE LATITUDE: </label>
     <input type="text" name="latitude" id="latitude" required><br/><br/>
     <label for="LONGITUDE">ENTER THE LONGITUDE: </label>
     <input type="text" name="longitude" id="longitude" required><br/><br/>
     <label for="CENSUS_CODE">ENTER THE CENSUS CODE: </label>
     <input type="text" name="censuscode" id="censuscode" required><br/><br/>
<input type="submit" value="predict" align="center" name="predict"/>
                                                                 </form>
   </div>
</div>
  Predicted City is : Austin
 </section>
</body>
</html>
```

#### 6.5 Prediction

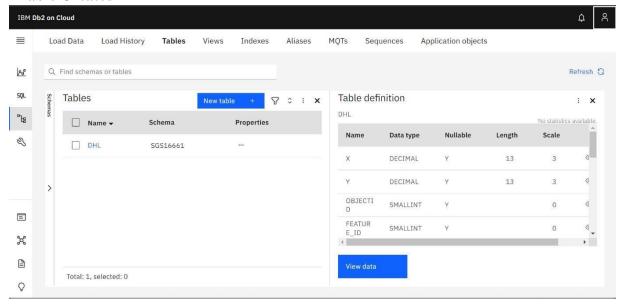
Predict the City based on the X-Coordinate, Y-Coordinate, Objectid, Featureid, Latitude, Longitude, Zipcode using the random forest algorithm.

```
from flask import Flask, render_template, request app = Flask(__name__)
```

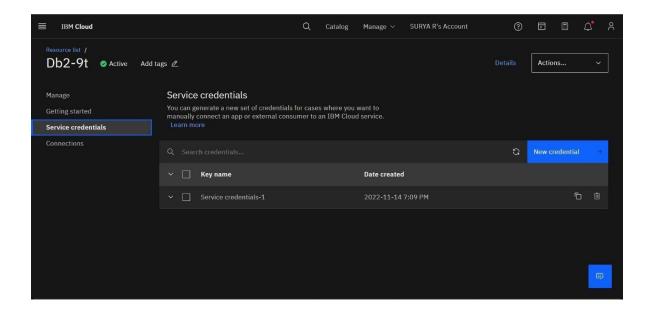
```
@app.route('/result',methods =
['POST']) def result():
columns=['X','Y','OBJECTID','FEATURE_ID','LATITUDE','LONGITUDE','ZIP']
temp.append(int(request.form['X'])) temp.append(int(request.form['Y']))
temp.append(int(request.form['objectid']))
temp.append(int(request.form['featureid']))
temp.append(int(request.form['latitude']))
temp.append(int(request.form['longitude']))
temp.append(int(request.form['zipcode'])) df = pd.read_csv('DHL_Facilities.csv')
X = df.iloc[:,0:4] #Geo-Codes, ObjectID, FeatureID
Y = df.iloc[:,9:12] \#Latitude, Longitude
Z = df.iloc[:,14] #ZipCode
X = pd.concat([X,Y,Z],axis = 1)
Y = df.iloc[:,7]
  X = X.replace('Not Available',0)
X = pd.DataFrame(X)
  df1=pd.DataFrame(columns=columns)
  df1=pd.concat((df,pd.DataFrame(data=[temp],columns=columns)))
classifier=RandomForestClassifier(n estimators=50, random state=0)
x_{train}, x_{test}, y_{train}, y_{test} = train_{test}. split(X, Y, test_size=0.2, random_state = 0)
scaler = StandardScaler() x train = scaler.fit transform(x train)
  classifier.fit(x_train,y_train)
pred = classifier.predict(df1)
  return render_template("data.html",result = result)
if __name__ == '__main__':
  app.run()
```

### 6.6 Database Schema (if Applicable)

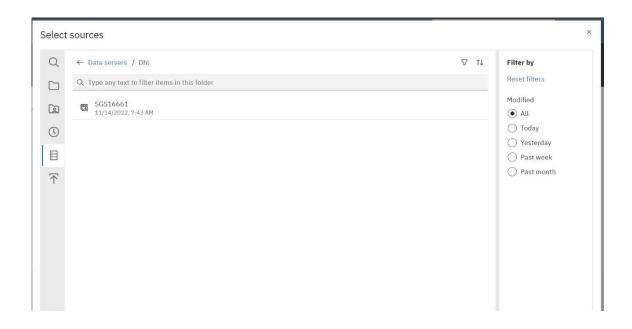
### **Table Created in DB2**



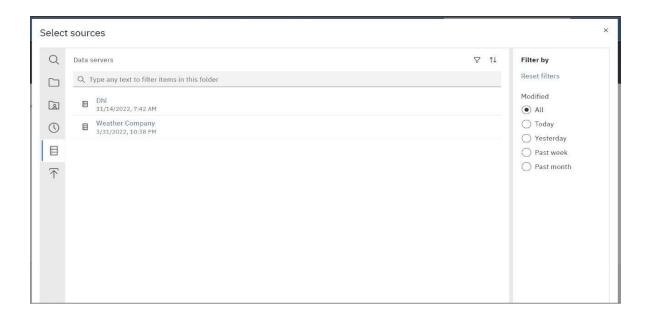
### **Create Service Credentials**



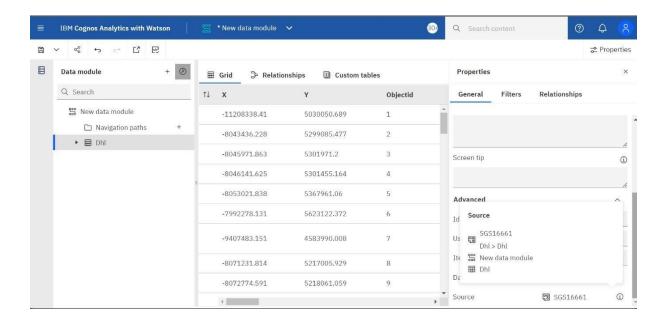
Connected to Cognos: Select Schema



### Select correct data



Displayed the meta data in Cognos



### 7. TESTING

# 7.1 Test Cases

Component	Test Scenario	Test Data	Expected result	Status
Login Page	User enters the name and Password	Username : admin123 Password : admin	User should be navigated to the dashboard	Working as expected
Login Page	User enters incorrect name and Password	Username : adminxyz Password : admin1	Error Message	Working as expected
Main Page	User able to navigate to the dashboard		The Visualizations are displayed	Working as expected
Main Page	User able to navigate to the Prediction page	User enters details about location, objected, featureid and zipcode	Details submitted	Working as expected
Main Page	Prediction result is viewed		City name displayed	Working as expected

# 7.2 User Acceptance Testing

# 1. Purpose of Document:

The purpose of this document is to briefly explain the test coverage and open issues of analysing the DHL Logistics facilities information

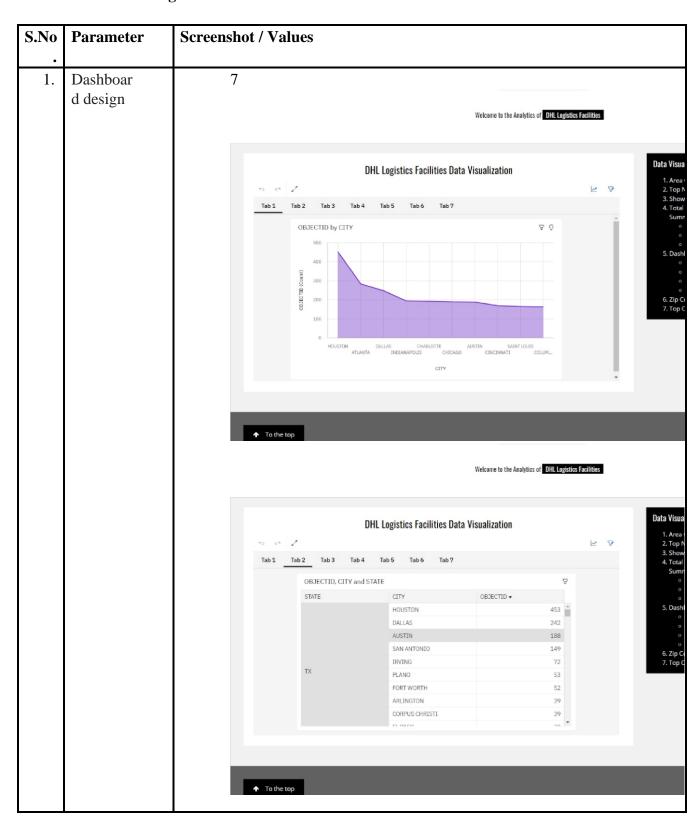
# 2. Defect Analysis:

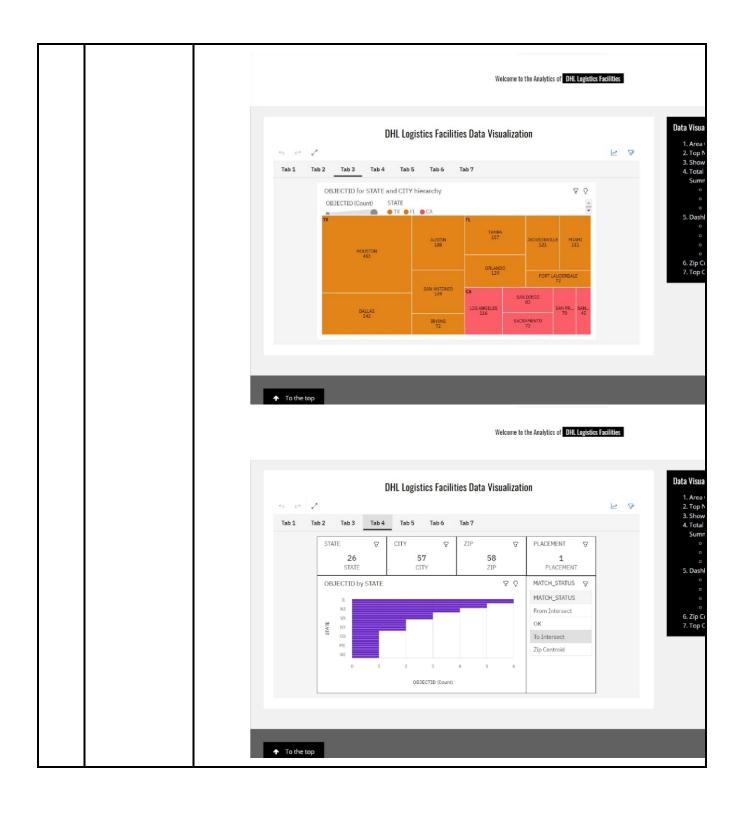
Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	7	5	3	2	17
Duplicate	1	0	2	0	3
External	3	2	0	1	6
Fixed	11	3	5	15	34
Not Reproduced	0	0	0	1	1
Skipped	0	1	0	1	2
Won't Fix	0	3	5	1	9
Totals	22	14	15	21	72

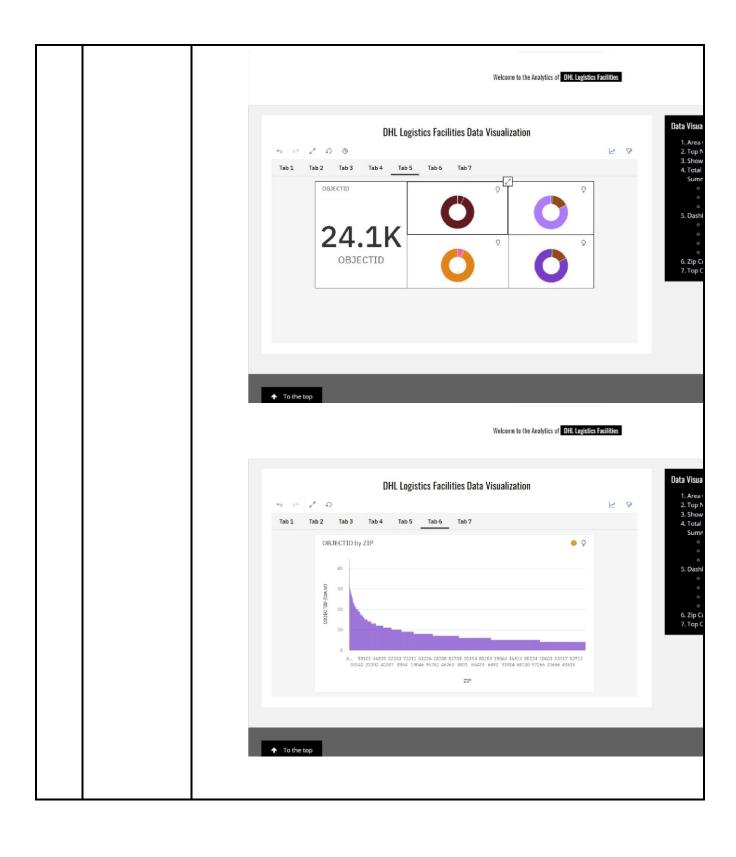
# 3. Test Case Analysis:

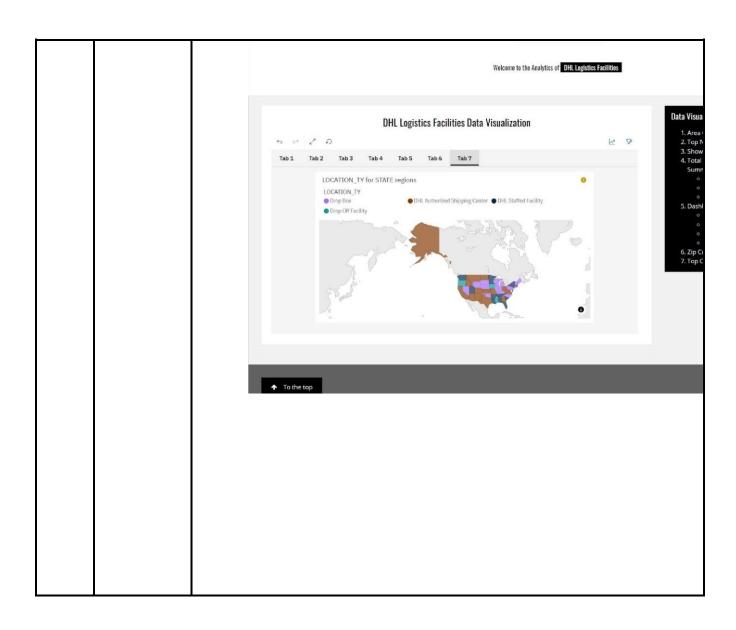
Section	Total Cases	Not Tested	Fail	Pass
Print Engine	7	0	0	7
Client Application	40	0	0	40
Security	2	0	0	2
Outsource Shipping	3	0	0	3
Exception Reporting	9	0	0	9
Final Report Output	3	0	0	3
Version Control	1	0	0	1

# 7.3 Performance Testing









further converted devices
uevices

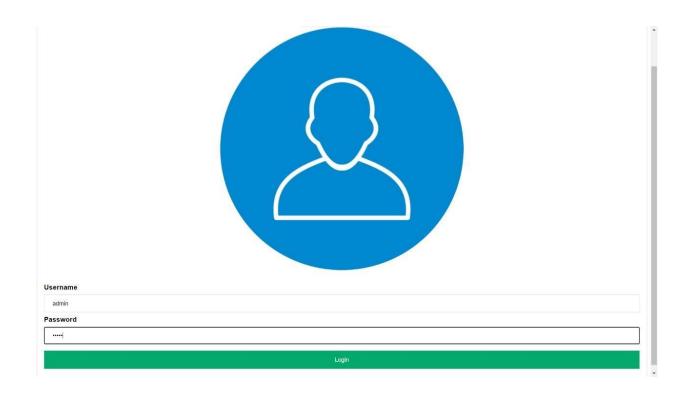
3. Amount 0 KB Data to Rendered (DB2 Metrics)	
Rendered (DB2	
(DB2	
Metrics)	
′	

4.	Utilizatio	The Utilization of data Filters like Ascending ,Descending ,Format
	n of Data	and so on.
	Filters	
	1 110015	

# 8. RESULTS

**8.1 Performance Metrics LOGIN** 

**PAGE:** 



ABOUT: DHL:

DHL Logistics Prediction DashBoard



# About DHL Logistics

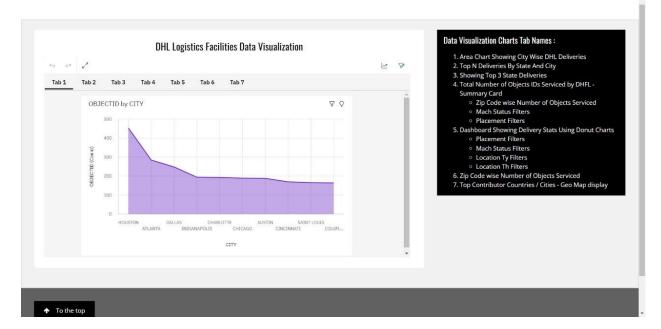
DHL Supply Chain, part of the EUR 56.6bn DPDHL Group, is the world's leading contract logistics provider. Combining value-added and management services with traditional fulfilment and distribution, our customized, integrated logistics solutions drive efficiency, improve quality and create competitive advantage.

DHL Supply Chain offers specialist, proven expertise within the Auto-Mobility, Consumer, Chemicals, Energy, Engineering & Manufacturing, Life Sciences & Healthcare, Retail and Technology sectors. As today's global markets grow, our innovative logistics solutions are ready to help.

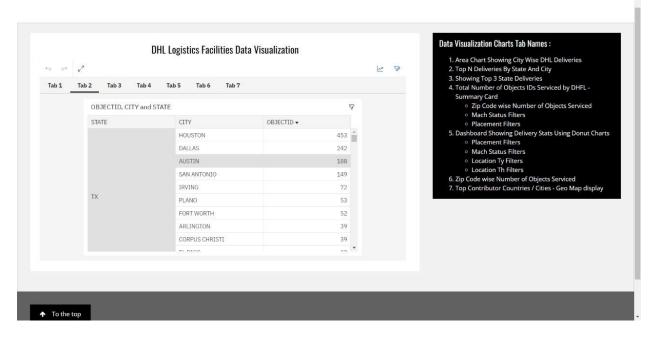
Powered by DHL Logistics Facilities

### **DASHBOARD CHARTS:**

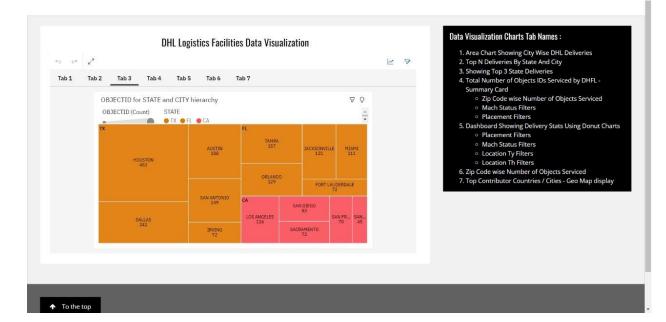
#### Welcome to the Analytics of DHL Logistics Facilities

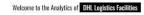


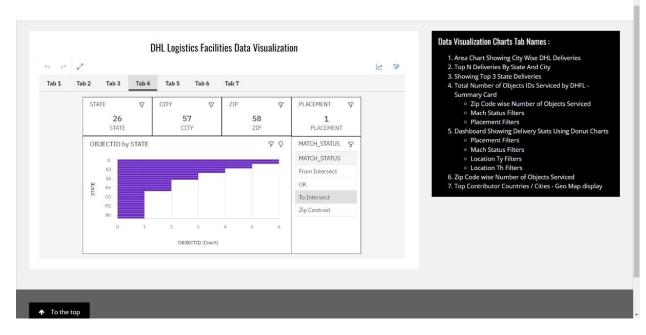
#### Welcome to the Analytics of DHL Logistics Facilities



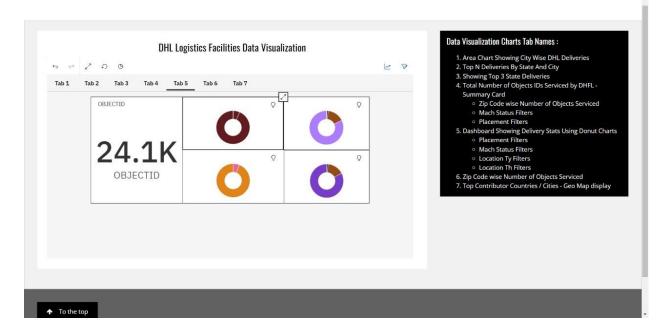
#### Welcome to the Analytics of DHL Logistics Facilities

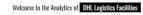


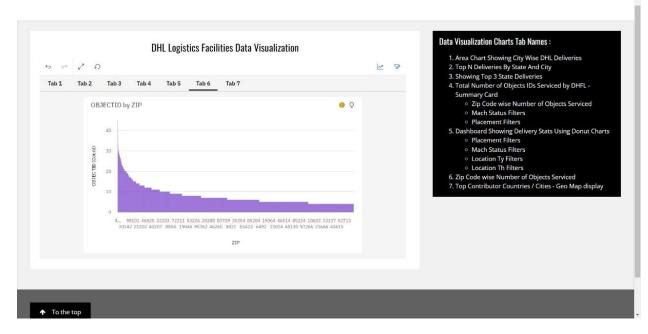


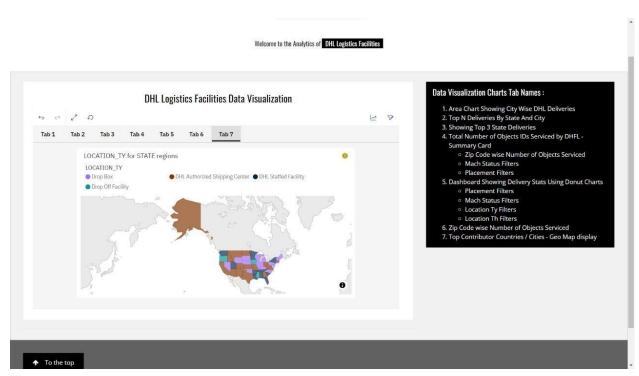


#### Welcome to the Analytics of DHL Logistics Facilities

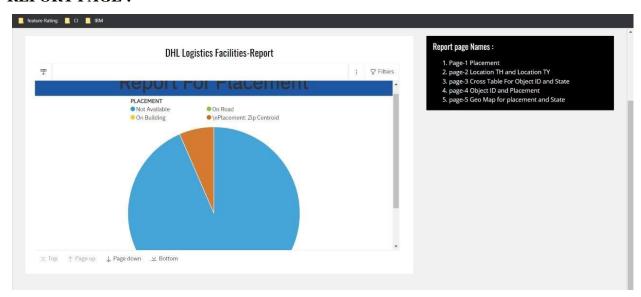




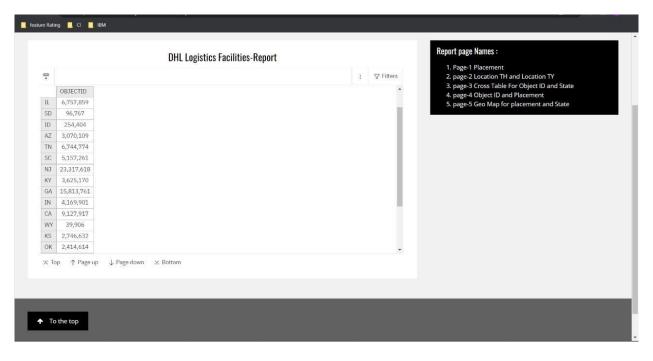


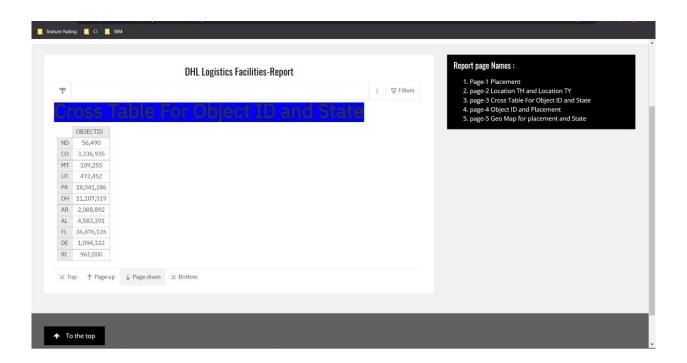


## **REPORT PAGE:**

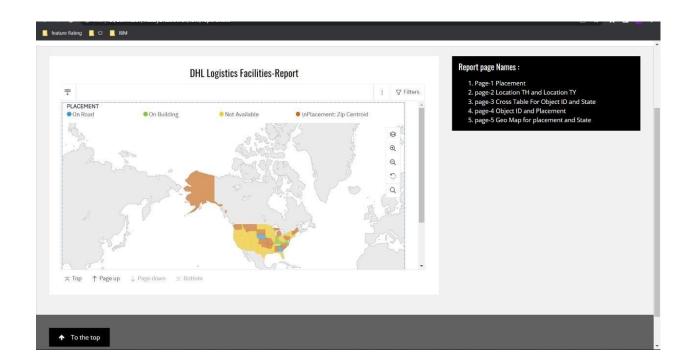












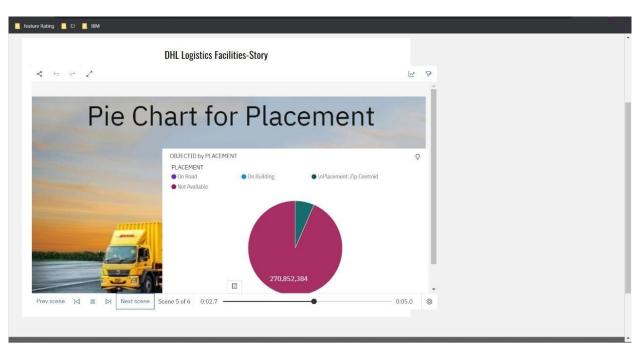
# **STORY PAGE:**





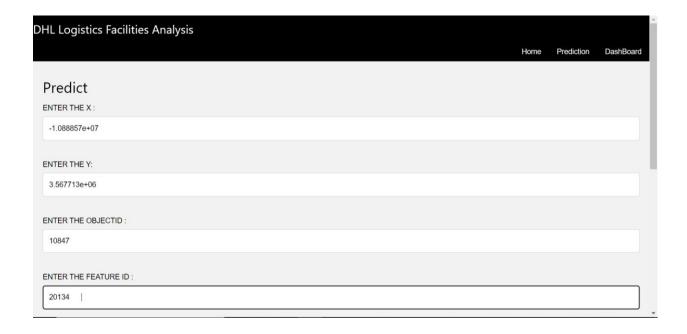








## **PREDICTION PAGE:**



ENTER THE FEATURE ID :			
20134			
ENTER THE ZIP CODE :			
78613			
ENTER THE LATITUDE:			
30.497910			
ENTER THE LONGITUDE:			
-97.813656			
ENTER THE CENSUS CODE:			
484910203096031			
WI .	-		

ENTER THE ZIP CODE :	
78613	
ENTER THE LATITUDE:	
30.497910	
ENTER THE LONGITUDE:	
-97.813656	
ENTER THE CENSUS CODE:	
484910203096031	
Predict	
Predicted City is :	
Fredicted City is :	
AUSTIN	

# 9. ADVANTAGES & DISADVANTAGES

# **Advantages:**

This application helps the users to get idea about the DHL Logistics facilities information and analysis of services it produces and also to estimate the city name based on the location details.

# **Disadvantages:**

Usage of this application requires prior knowledge about the DHL Logistics.

## 10. CONCLUSION

This application is designed in such a way that it provides analysis about DHL Logistics facilities to the user and better understanding of product delivery services which helps in process of to provide analytics to improve the business

#### 11. FUTURE SCOPE

The application is designed in such a way that it provides opportunities for making enhancements in the future by adding features like analysis about delivery services, online services, delivery ordering, etc.

#### 12. APPENDIX

```
SOURCE CODE myapp.py from sklearn.ensemble
import RandomForestClassifier import pandas as pd
import numpy as np import pickle
from flask import Flask, request, render_template
from sklearn.metrics import precision_score,recall_score,f1_score
from sklearn.metrics import accuracy_score from
sklearn.preprocessing import StandardScaler from
sklearn.model_selection import train_test_split app =
Flask(__name__) @app.route("/template") def home():
    return render_template("Login.html")
@app.route("/template",methods=["POST","GET"]) def
index():
    return render_template("index.html")
```

```
@app.route("/template",methods=["POST","GET"])
def result():
              temp=[]
columns=['X','Y','OBJECTID','FEATURE_ID','ZIP','LATITUDE','LONGITUDE','CENSUS_CO
DE'l
       temp.append(int(request.form['X']))
                                             temp.append(int(request.form['Y']))
temp.append(int(request.form['objectid']))
                                           temp.append(int(request.form['featureid']))
temp.append(int(request.form['zipcode']))
                                           temp.append(int(request.form['latitude']))
                                             temp.append(int(request.form['censuscode']))
temp.append(int(request.form['longitude']))
df = pd.read_csv('DHL_Facilities.csv')
X = df.iloc[:,0:4] \#Geo-Codes, ObjectID, FeatureID
Y = df.iloc[:,9:12] #Latitude, Longitude
Z = df.iloc[:,14] #ZipCode
X = pd.concat([X,Y,Z],axis = 1)
Y = df.iloc[:,7]
  X = X.replace('Not Available',0)
X = pd.DataFrame(X)
  df1=pd.DataFrame(columns=columns)
  df2=pd.concat((df1,pd.DataFrame(data=[temp],columns=columns)))
classifier=RandomForestClassifier(n_estimators=50, random_state=0)
x_train,x_test,y_train,y_test = train_test_split(X,Y,test_size=0.2,random_state = 0)
classifier.fit(x_train,y_train)
                              res = classifier.predict(df2)
render_template("data.html",result = res)
  if __name__ == '__main___':
          app.run()
  Login.html
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<style> body {font-family: Arial, Helvetica,
sans-serif;} form {border: 3px solid #f1f1f1;}
input[type=text], input[type=password] {
width: 100%; padding: 12px 20px; margin:
8px 0; display: inline-block; border: 1px
solid #ccc; box-sizing: border-box;
} button { background-color:
#04AA6D; color: white;
padding: 14px 20px; margin:
8px 0; border: none; cursor:
pointer;
 width: 100%;
} button:hover { opacity:
0.8; } .cancelbtn { width:
auto; padding: 10px 18px;
background-color: #f44336;
.imgcontainer { text-
align: center; margin:
24px 0 12px 0;
} img.avatar {
width: 40%;
border-radius: 50%;
} .container {
padding: 16px;
} span.psw
float: right; padding-
top: 16px;
```

```
/* Change styles for span and cancel button on extra small screens */
@media screen and (max-width: 300px) {
span.psw {
              display: block;
none;
 }
 .cancelbtn {
width: 100%;
 }
}
</style>
</head>
<body>
<h2>Login Form</h2>
<form action="/Sem 7/Nalaiya thiran/IBM/Ind.html" method="post">
 <div class="imgcontainer">
  <img src="avathar.jpg" alt="Avatar" class="avatar">
 </div>
 <div class="container">
  <label for="uname"><b>Username</b></label>
  <input type="text" placeholder="Enter Username" name="uname" required>
  <label for="psw"><b>Password</b></label>
  <input type="password" placeholder="Enter Password" name="psw" required>
  <button type="submit">Login</button>
 </div>
</form>
<script src="vendor/jquery/jquery.min.js"></script>
  <script src="vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
  <!-- Core plugin JavaScript-->
  <script src="vendor/jquery-easing/jquery.easing.min.js"></script>
  <!-- Custom scripts for all pages-->
```

```
<script src="js/sb-admin-2.min.js"></script>
  <script type="text/javascript">
var loginCheck=function(){
    const loginForm = document.getElementById("login-form");
                                                                   const
loginButton = document.getElementById("login-form-submit");
                                                                 // const
loginErrorMsg = document.getElementById("login-error-msg");
const username = loginForm.username.value;
                                                  const password =
loginForm.password.value;
                                 if (username === "admin" && password
=== "admin123") {
                           window.location.replace("Ind.html");
                        alert("Invalid
       } else {
Username/Password!");
console.log("login error");
       }
    }
  </script>
</body>
</html>
Dashboard.html
<!DOCTYPE html>
<html>
<head>
<title>DHL Logistics Facilities</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
k rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
k rel="stylesheet" href="https://fonts.googleapis.com/css?family=Oswald">
k rel="stylesheet" href="https://fonts.googleapis.com/css?family=Open Sans">
k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/fontawesome.min.css">
```

```
<style> h1,h2,h3,h4,h5,h6 {font-family:
"Oswald" body {font-family: "Open
Sans" }
</style>
</head>
<body class="w3-light-grey">
<!-- Navigation bar with social media icons -->
<div class="w3-bar w3-black w3-hide-small">
<div align = "left">
 <h2 class = w3-xlarge>DHL Logistics Facilities Analysis</h2></div>
 <div class="w3-right w3-hide-small">
   <a href= "Ind.html" class="w3-bar-item w3-button">Home</a>
   <a href= "data.html" class="w3-bar-item w3-button">Prediction</a>
   <a href= "dashboard.html" class="w3-bar-item w3-button">DashBoard</a>
  </div>
</div>
<!-- w3-content defines a container for fixed size centered content, and is wrapped
around the whole page content, except for the footer in this example -->
<div class="w3-content" style="max-width:1600px">
 <!-- Header -->
 <header class="w3-container w3-center w3-padding-48 w3-white">
  <h6>Welcome
                         the
                                Analytics
                                             of
                                                  <span
                                                            class="w3-tag">DHL
                                                                                    Logistics
Facilities</span></h6>
 </header>
 <!-- Grid -->
 <div class="w3-row w3-padding w3-border">
  <!-- Blog entries -->
  <div class="w3-col 18 s12">
   <!-- Blog entry -->
```

```
<div class="w3-center">
     <h3>DHL Logistics Facilities Data Visualization</h3>
    </div>
    <div class="w3-justify">
            <iframe
src="https://us3.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.public_folders
%2FDHL_Logistics%2FDHL_DashBoard&closeWindowOnLastView=true&ui_appb
ar=false&ui_navbar=false&shareMode=embedded&action=view&mode=das
hboard&subView=model0000018378e9c01e_00000000" width="900" height="500"
frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
    </div>
   </div>
   <hr>
  <!-- END BLOG ENTRIES -->
  </div>
  <!-- About/Information menu -->
  <div class="w3-col 14">
   <!-- About Card -->
   <div class="w3-white w3-margin">
    <div class="w3-container w3-black">
     <h4>Data Visualization Charts Tab Names : </h4>
     >
             \langle ol \rangle
             Area Chart Showing City Wise DHL Deliveries
             Top N Deliveries By State And City
             Showing Top 3 State Deliveries
             Total Number of Objects IDs Serviced by DHFL - Summary Card
             Zip Code wise Number of Objects Serviced
             Mach Status Filters
```

<div class="w3-container w3-white w3-margin w3-padding-large">

```
Placement Filters
             Dashboard Showing Delivery Stats Using Donut Charts
             Placement Filters
             Mach Status Filters
             Location Ty Filters
             Location Th Filters
             Zip Code wise Number of Objects Serviced
             Top Contributor Countries / Cities - Geo Map display
             </div>
   </div>
   <hr>
 <!-- END GRID -->
 </div>
<!-- END w3-content -->
</div>
<!-- Footer -->
<footer class="w3-container w3-dark-grey" style="padding:32px">
<a href="#" class="w3-button w3-black w3-padding-large w3-margin-bottom"><i class="fa
faarrow-up w3-margin-right"></i>To the top</a>
 Powered by PNT2022TMID17919
</footer>
</body>
</html>
data.html <!DOCTYPE
html>
<html>
<head>
```

```
<title>Data Analytics for DHL Logistics Facilities</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
k rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
<link href="https://fonts.googleapis.com/css?family=Raleway" rel="stylesheet" type="text/css">
k rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
k rel="stylesheet" href="https://fonts.googleapis.com/css?family=Oswald">
k rel="stylesheet" href="https://fonts.googleapis.com/css?family=Open Sans">
k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/fontawesome.min.css">
<style> body {font-family: "Raleway", Arial,
sans-serif } .w3-row img {margin-bottom: -8px}
body {font-family: Arial, Helvetica, sans-serif;}
* {box-sizing: border-box;}
input[type=text], select, textarea {
width: 100%; padding: 12px;
border: 1px solid #ccc; border-
radius: 4px; box-sizing: border-
box; margin-top: 6px; margin-
bottom: 16px; resize: vertical; }
input[type=submit] {
background-color: #04AA6D;
color: white; padding: 12px
20px; border: none; border-
radius: 4px; cursor: pointer; }
input[type=submit]:hover {
background-color: #45a049;
} .container { border-
radius: 5px; background-
```

```
color: #f2f2f2; padding:
20px;
</style>
</head>
<body>
<div class="w3-bar w3-black w3-hide-small">
<div align = "left">
 <h2 class = w3-xlarge>DHL Logistics Facilities Analysis</h2></div>
 <div class="w3-right w3-hide-small">
   <a href= "Ind.html" class="w3-bar-item w3-button">Home</a>
   <a href= "data.html" class="w3-bar-item w3-button">Prediction</a>
   <a href= "dashboard.html" class="w3-bar-item w3-button">DashBoard</a>
       <!--<a href= "Ind.html" class="w3-bar-item w3-button">Home</a>-->
  </div>
</div>
  <div class="container" data-aos="fade-up">
   <div class="predictform">
    <h2>Predict</h2>
   <form action="{{ url_for('result') }}" method="POST" >
     <label for="X-COORDINATE">ENTER THE X : </label>
     <input type="text" name="X" id="X" required><br/><br/>
     <label for="Y-COORDINATE">ENTER THE Y: </label>
     <input type="text" name="Y" id="Y" required><br/><br/>
     <label for="OBJECTID">ENTER THE OBJECTID : </label>
     <input type="text" name="objectid" id="objectid" required><br/><br/>
     <label for="FEATUREID">ENTER THE FEATURE ID : </label>
     <input type="text" name="featureid" id="featureid" required><br/><br/>
     <label for="ZIPCODE">ENTER THE ZIP CODE : </label>
     <input type="text" name="zipcode" id="zipcode" required><br/><br/>
     <label for="LATITUTDE">ENTER THE LATITUDE: </label>
```

```
<input type="text" name="latitude" id="latitude" required><br/><br/>
     <label for="LONGITUDE">ENTER THE LONGITUDE: </label>
     <input type="text" name="longitude" id="longitude" required><br/><br/>
                                                                                <label
for="CENSUS_CODE">ENTER THE CENSUS CODE: </label>
     <input type="text" name="censuscode" id="censuscode" required><br/><br/>
     <input type="submit" value="predict" align="center" name="predict"/>
   </form>
   </div>
</div>
       style="position:relative;left:300px;color:red;font-size:larger">Predicted
                                                                             City
                                                                                    is
  <p
Austin
 </section>
</body>
</html>
Index.html
<!DOCTYPE html>
<html>
<head>
<title>DHL Logistics Facilities</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
k rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
<style> body {font-family: "Times New Roman",
Georgia, Serif; h1, h2, h3, h4, h5, h6 { font-family:
"Playfair Display"; letter-spacing: 5px;
}
</style>
</head>
<body>
<!-- Navbar (sit on top) -->
<div class="w3-top">
```

```
<div class="w3-bar w3-white w3-padding w3-card" style="letter-spacing:4px;">
  <a href="#home" class="w3-bar-item w3-button">DHL Logistics</a>
  <!-- Right-sided navbar links. Hide them on small screens -->
  <div class="w3-right w3-hide-small">
   <a href= "data.html" class="w3-bar-item w3-button">Prediction</a>
   <a href= "dashboard.html" class="w3-bar-item w3-button">DashBoard</a>
  </div>
 </div>
</div>
<!-- Page content -->
<div class="w3-content" style="max-width:1100px">
<!-- About Section -->
 <div class="w3-row w3-padding-64" id="about">
  <div class="w3-col m6 w3-padding-large w3-hide-small">
  <img src="DHL.gif" class="w3-round w3-image w3-opacity-min" alt="Table Setting"</pre>
width="600" height="750">
  </div>
  <div class="w3-col m6 w3-padding-large">
   <h1 class="w3-center">About DHL Logistics</h1><br>
   DHL Supply Chain, part of the EUR 56.6bn DPDHL Group, is the
world's leading contract logistics provider. Combining value-added and management services with
traditional fulfilment and distribution, our customized, integrated logistics solutions drive
efficiency, improve quality and create competitive advantage.
   DHL Supply Chain offers specialist, proven
expertise within the Auto-Mobility, Consumer, Chemicals, Energy, Engineering &
Manufacturing, Life Sciences & Healthcare, Retail and Technology sectors. As today's global
markets grow, our innovative logistics solutions are ready to help.
                                                                  </div>
</div>
 <hr>
</div>
```

```
<!-- Footer -->
<footer class="w3-center w3-light-grey w3-padding-32">
 Powered by DHL Logistics Facilities
</footer>
</body>
</html>
Report.html
<!DOCTYPE html>
<html>
<head>
<title>DHL Logistics Facilities</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
k rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
k rel="stylesheet" href="https://fonts.googleapis.com/css?family=Oswald">
k rel="stylesheet" href="https://fonts.googleapis.com/css?family=Open Sans">
k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/fontawesome.min.css">
<style> h1,h2,h3,h4,h5,h6 {font-family:
"Oswald" | body {font-family: "Open
Sans"}
</style>
</head>
<body class="w3-light-grey">
<!-- Navigation bar with social media icons -->
<div class="w3-bar w3-black w3-hide-small">
<div align = "left">
 <h2 class = w3-xlarge>DHL Logistics Facilities Analysis</h2></div>
 <div class="w3-right w3-hide-small">
   <a href= "Ind.html" class="w3-bar-item w3-button">Home</a>
```

```
<a href= "data.html" class="w3-bar-item w3-button">Prediction</a>
   <a href= "dashboard.html" class="w3-bar-item w3-button">DashBoard</a>
        <a href= "Story.html" class="w3-bar-item w3-button">Story</a>
  </div>
</div>
<!-- w3-content defines a container for fixed size centered content, and is wrapped
around the whole page content, except for the footer in this example -->
<div class="w3-content" style="max-width:1600px">
 <!-- Header -->
 <header class="w3-container w3-center w3-padding-48 w3-white">
  <h6>Welcome
                              Analytics
                                                <span
                                                         class="w3-tag">DHL
                                                                                Logistics
                   to
                        the
                                          of
Facilities</span></h6>
 </header>
 <!-- Grid -->
 <div class="w3-row w3-padding w3-border">
  <!-- Blog entries -->
  <div class="w3-col 18 s12">
   <!-- Blog entry -->
   <div class="w3-container w3-white w3-margin w3-padding-large">
    <div class="w3-center">
     <h3>DHL Logistics Facilities-Report</h3>
    </div>
    <div class="w3-justify">
             <iframe
src="https://us3.ca.analytics.ibm.com/bi/?pathRef=.public_folders%2FDHL_Logistics%2FDHL
_Report&closeWindowOnLastView=true&ui_appbar=false&ui_navbar=false&a
mp;shareMode=embedded&action=run&format=HTML&prompt=false"
                 height="500" frameborder="0"
width="900"
                                                   gesture="media"
                                                                       allow="encrypted-
media" allowfullscreen=""></iframe>
    </div>
```

```
</div>
   <hr>
  <!-- END BLOG ENTRIES -->
  </div>
  <!-- About/Information menu -->
  <div class="w3-col 14">
   <!-- About Card -->
   <div class="w3-white w3-margin">
    <div class="w3-container w3-black">
     <h4>Report page Names : </h4>
     >
              <ol>
              Page-1 Placement
              page-2 Location TH and Location TY
              page-3 Cross Table For Object ID and State
             page-4 Object ID and Placement
              page-5 Geo Map for placement and State
              </div>
   </div>
   <hr>
 <!-- END GRID -->
 </div>
<!-- END w3-content -->
</div>
<!-- Footer -->
<footer class="w3-container w3-dark-grey" style="padding:32px">
<a href="#" class="w3-button w3-black w3-padding-large w3-margin-bottom"><i class="fa
faarrow-up w3-margin-right"></i>To the top</a>
```

```
Powered by PNT2022TMID17919
</footer>
</body>
</html>
Story.html
<!DOCTYPE html>
<html>
<head>
<title>DHL Logistics Facilities</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
k rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
k rel="stylesheet" href="https://fonts.googleapis.com/css?family=Oswald">
k rel="stylesheet" href="https://fonts.googleapis.com/css?family=Open Sans">
k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/fontawesome.min.css">
<style> h1,h2,h3,h4,h5,h6 {font-family:
"Oswald" body {font-family: "Open
Sans"}
</style>
</head>
<body class="w3-light-grey">
<!-- Navigation bar with social media icons -->
<div class="w3-bar w3-black w3-hide-small">
<div align = "left">
 <h2 class = w3-xlarge>DHL Logistics Facilities Analysis</h2></div>
 <div class="w3-right w3-hide-small">
   <a href= "Ind.html" class="w3-bar-item w3-button">Home</a>
   <a href= "data.html" class="w3-bar-item w3-button">Prediction</a>
   <a href= "dashboard.html" class="w3-bar-item w3-button">DashBoard</a>
```

```
</div>
</div>
<!-- w3-content defines a container for fixed size centered content,
and is wrapped around the whole page content, except for the footer in this example -->
<div class="w3-content" style="max-width:1600px">
 <!-- Header -->
 <header class="w3-container w3-center w3-padding-48 w3-white">
  <h6>Welcome
                   to
                        the
                              Analytics
                                          of
                                               <span
                                                        class="w3-tag">DHL
                                                                              Logistics
Facilities</span></h6>
 </header>
 <!-- Grid -->
 <div class="w3-row w3-padding w3-border">
  <!-- Blog entries -->
  <div class="w3-col 18 s12">
   <!-- Blog entry -->
   <div class="w3-container w3-white w3-margin w3-padding-large">
    <div class="w3-center">
     <h3>DHL Logistics Facilities-Story</h3>
    </div>
    <div class="w3-justify" width = 1500>
             <iframe
src="https://us3.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.public_folders%2F
DHL_Logistics%2FDHL_story&closeWindowOnLastView=true&ui_appbar=false&a
mp;ui_navbar=false&shareMode=embedded&action=view&sceneId=model0000
0184a007325d_00000000&sceneTime=0" width="1000" height="600" frameborder="0"
gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
    </div>
   </div>
   <hr>
  <!-- END BLOG ENTRIES -->
```

```
<!-- About/Information menu -->
<hr>
<!-- END GRID -->
</div>
<!-- END w3-content -->
</div>
<!-- Footer -->
<footer class="w3-container w3-dark-grey" style="padding:32px">
<a href="#" class="w3-button w3-black w3-padding-large w3-margin-bottom"><i class="fa faarrow-up w3-margin-right"></i>To the top</a>
Powered by PNT2022TMID03314
</footer>
</body>
</html>
```

# GitHub & Project Demo Link

## **GITHUB PROJECT LINK:**

https://github.com/IBM-EPBL/IBM-Project-5809-1658816582

## **DEMO LINK:**

https://youtu.be/9J9fsK4mUaA