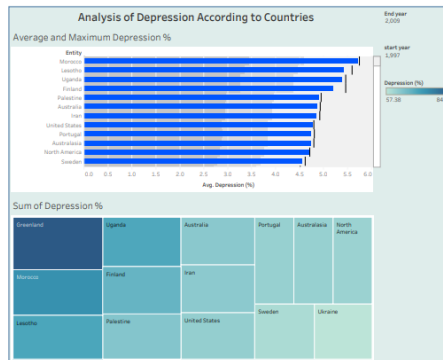


Project Development Phase Model Performance Test

Date	4 November 2022
Team ID	Team-591299
Project Name	Depression a Common Mental Disorder
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Screenshot / Values
1.	Dashboard design	<p>No of Visualizations for dashboard: 3</p> <p>The dashboard displays various visualizations related to mental disorders complementing depression. The top section, 'Lifestyle habits complementing Depression', includes a horizontal bar chart for 'Average Alcohol Use Disorder %', a treemap for 'Average Drug Use Disorder %', and a bubble chart for 'Average Eating Disorder %'. The bottom section, 'Mental Disorders Complementing Depression', includes a horizontal bar chart for 'Average Anxiety Disorder %', a treemap for 'Average Bipolar Disorder %', and a bubble chart for 'Average Schizophrenia Disorder %'. Each chart includes a legend and a summary of the data.</p>



2.

Data Responsiveness

Overall R-squared Accuracy: 0.6231249718870456

R-squared Accuracy: 0.6879725723868086

```

+ Code + Text
# Create and train a linear regression model
model = LinearRegression()
model.fit(X_train, y_train)

# Make predictions on the test set
y_pred = model.predict(X_test)

# Calculate R-squared accuracy
accuracy = r2_score(y_test, y_pred)
overall_accuracy += accuracy

# Calculate the average accuracy
average_accuracy = overall_accuracy / (len(conditions) * len(data['Entity'].unique()))

print(f"Overall R-squared Accuracy: {average_accuracy}")

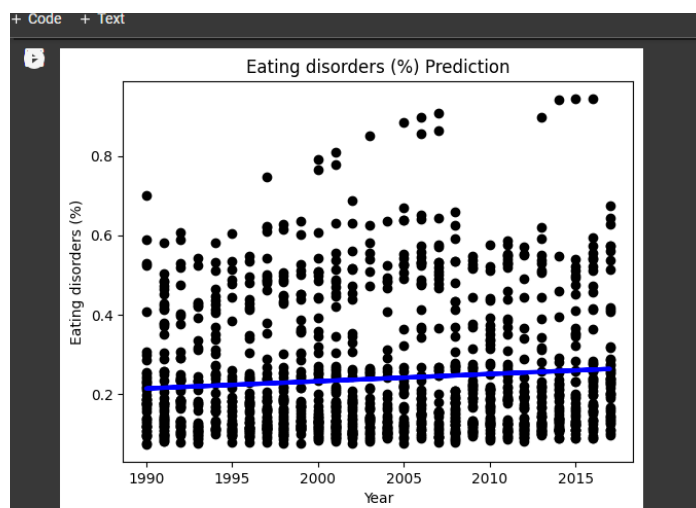
Overall R-squared Accuracy: 0.6231249718870456

average_accuracy = overall_accuracy / (len(conditions) * len(data['Entity'].unique()))

accuracy = r2_score(y_test, y_pred)
print(f"R-squared Accuracy: {accuracy}\n")

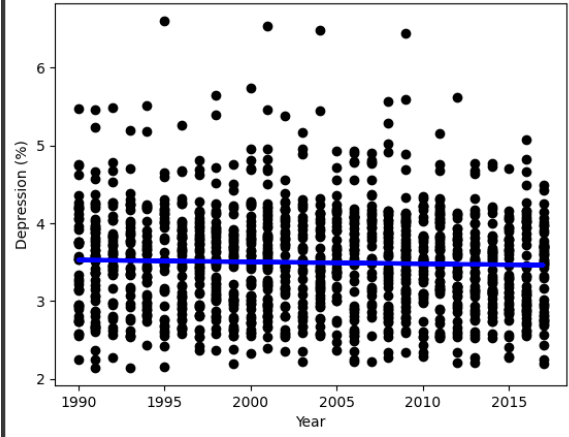
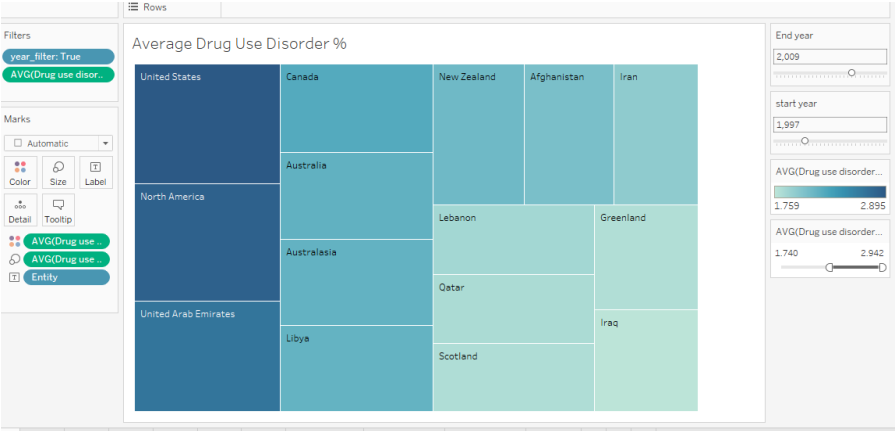
R-squared Accuracy: 0.6879725723868086

```



Mean Squared Error: 0.02645681725460534

R-squared: 0.001665843301023373

		<div><div><div><div>Depression (%) Prediction</div></div><div><div>Mean Squared Error: 0.4306970558091386</div><div>R-squared: 0.0016681613605893375</div></div></div></div>
3.	Amount Data to Rendered (DB2 Metrics)	
4.	Utilization of Data Filters	<div><p>The data filters are utilized to find the relationship between the depression data and the various kinds of disorders given for different countries between years 1990 to 2017 to get a better understanding of in which country the rate of depression is high and due to what reason.</p></div>

5.

Effective User Story

No of Scene Added - 8

In the user story a description is provided for all the visualizations of what percentage of a particular disorder is mostly affecting what country. There are total of eight stories presented in this data visualization project.

