



In []:

Project Name -

Project Type - EDA/Regression/Classification/Unsupervised

Contribution - Individual/Team

Team Member 1 -

Team Member 2 -

Team Member 3 -

Team Member 4 -

Project Summary -

Write the summary here within 500-600 words.

GitHub Link -

Provide your GitHub Link here.

Problem Statement

Write Problem Statement Here.

Define Your Business Objective?

Answer Here.

General Guidelines : -

1. Well-structured, formatted, and commented code is required.
2. Exception Handling, Production Grade Code & Deployment Ready Code will be a plus. Those students will be awarded some additional credits.

The additional credits will have advantages over other students during

Star Student selection.

[Note: - Deployment Ready Code is defined as, the whole .ipynb notebook should be executable in one go without a single error logged.]

3. Each and every logic should have proper comments.
4. You may add as many number of charts you want. Make Sure for each and every chart the following format should be answered.

Chart visualization code

- Why did you pick the specific chart?
 - What is/are the insight(s) found from the chart?
 - Will the gained insights help creating a positive business impact? Are there any insights that lead to negative growth? Justify with specific reason.
5. You have to create at least 20 logical & meaningful charts having important insights.

[Hints : - Do the Vizualization in a structured way while following "UBM" Rule.

U - Univariate Analysis,

B - Bivariate Analysis (Numerical - Categorical, Numerical - Numerical, Categorical - Categorical)

M - Multivariate Analysis]

Let's Begin !

1. Know Your Data

Import Libraries

In []: `# Import Libraries`

Dataset Loading

```
In [ ]: # Load Dataset
```

Dataset First View

```
In [ ]: # Dataset First Look
```

Dataset Rows & Columns count

```
In [ ]: # Dataset Rows & Columns count
```

Dataset Information

```
In [ ]: # Dataset Info
```

Duplicate Values

```
In [ ]: # Dataset Duplicate Value Count
```

Missing Values/Null Values

```
In [ ]: # Missing Values/Null Values Count
```

```
In [ ]: # Visualizing the missing values
```

What did you know about your dataset?

Answer Here

2. Understanding Your Variables

```
In [ ]: # Dataset Columns
```

```
In [ ]: # Dataset Describe
```

Variables Description

Answer Here

Check Unique Values for each variable.

```
In [ ]: # Check Unique Values for each variable.
```

3. **Data Wrangling**

Data Wrangling Code

```
In [ ]: # Write your code to make your dataset analysis ready.
```

What all manipulations have you done and insights you found?

Answer Here.

4. **Data Vizualization, Storytelling & Experimenting with charts : Understand the relationships between variables**

Chart - 1

```
In [ ]: # Chart - 1 visualization code
```

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

3. Will the gained insights help creating a positive business impact?

Are there any insights that lead to negative growth? Justify with specific reason.

Answer Here

Chart - 2

```
In [ ]: # Chart - 2 visualization code
```

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

3. Will the gained insights help creating a positive business impact?

Are there any insights that lead to negative growth? Justify with specific reason.

Answer Here

Chart - 3

```
In [ ]: # Chart - 3 visualization code
```

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

3. Will the gained insights help creating a positive business impact?

Are there any insights that lead to negative growth? Justify with specific reason.

Answer Here

Chart - 4

```
In [ ]: # Chart - 4 visualization code
```

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

3. Will the gained insights help creating a positive business impact?

Are there any insights that lead to negative growth? Justify with specific reason.

Answer Here

Chart - 5

In []: *# Chart - 5 visualization code*

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

3. Will the gained insights help creating a positive business impact?

Are there any insights that lead to negative growth? Justify with specific reason.

Answer Here

Chart - 6

In []: *# Chart - 6 visualization code*

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

3. Will the gained insights help creating a positive business impact?

Are there any insights that lead to negative growth? Justify with specific reason.

Answer Here

Chart - 7

In []: *# Chart - 7 visualization code*

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

3. Will the gained insights help creating a positive business impact?

Are there any insights that lead to negative growth? Justify with specific reason.

Answer Here

Chart - 8

In []: *# Chart - 8 visualization code*

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

3. Will the gained insights help creating a positive business impact?

Are there any insights that lead to negative growth? Justify with specific reason.

Answer Here

Chart - 9

In []: *# Chart - 9 visualization code*

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

3. Will the gained insights help creating a positive business impact?

Are there any insights that lead to negative growth? Justify with specific reason.

Answer Here

Chart - 10

In []: *# Chart - 10 visualization code*

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

3. Will the gained insights help creating a positive business impact?

Are there any insights that lead to negative growth? Justify with specific reason.

Answer Here

Chart - 11

In []: *# Chart - 11 visualization code*

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

3. Will the gained insights help creating a positive business impact?

Are there any insights that lead to negative growth? Justify with specific reason.

Answer Here

Chart - 12

In []: *# Chart - 12 visualization code*

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

3. Will the gained insights help creating a positive business impact?

Are there any insights that lead to negative growth? Justify with specific reason.

Answer Here

Chart - 13

```
In [ ]: # Chart - 13 visualization code
```

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

3. Will the gained insights help creating a positive business impact?

Are there any insights that lead to negative growth? Justify with specific reason.

Answer Here

Chart - 14 - Correlation Heatmap

```
In [ ]: # Correlation Heatmap visualization code
```

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

Chart - 15 - Pair Plot

```
In [ ]: # Pair Plot visualization code
```

1. Why did you pick the specific chart?

Answer Here.

2. What is/are the insight(s) found from the chart?

Answer Here

5. Solution to Business Objective

What do you suggest the client to achieve Business Objective ?

Explain Briefly.

Answer Here.

Conclusion

Write the conclusion here.

Hurrah! You have successfully completed your EDA Capstone Project !!!

In []:

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