NAAN MUDHALVAN – MODEL PRACTICAL

1. EDA ON GLOBAL SUPERSTORE SALES DATASET

Dataset: Global Superstore Dataset (Excel)

Objective: Analyze the sales performance across regions and customer segments.

Instructions:

- Load the dataset using Pandas.
- Clean missing data and remove duplicates.
- Calculate summary statistics (mean, median, standard deviation) for Sales and Profit.
- Analyze:
 - o Total sales per region.
 - o Top 5 most profitable product categories.
 - Year-wise sales trend.
- Visualizations:
 - o Bar chart: Sales by region.
 - o Line chart: Year-wise sales trend.
- Write brief insights for each chart.

2. EDA ON COVID-19 GLOBAL DATASET

Dataset: COVID-19 World Data (Johns Hopkins)

Objective: Explore the spread and impact of COVID-19 across different states in

India.

Instructions:

- Load the dataset and inspect the first few rows.
- Handle missing data and convert date columns to datetime format.
- Calculate:
 - o Total confirmed, recovered, and death cases for each state.
 - O State with the highest number of cases.
 - o Daily trend of new cases.
- Visualizations:
 - o Pie chart: Top 5 states by confirmed cases.
 - o Line graph: Trend of daily confirmed cases.
- Write observations based on data and graphs.

3. EDA ON YOUTUBE TRENDING VIDEOS DATASET

Dataset: YouTube Trending Videos

Objective: Explore video trends, engagement metrics, and content categories.

Instructions:

- Load and clean the dataset using Pandas.
- Handle missing or null values and remove duplicates.
- Calculate:
 - o Most common video categories.
 - o Top 5 channels with the highest number of trending videos.
 - o Average likes, views, and comments.
- Visualizations:
 - o Bar chart: Video count by category.
 - o Scatter plot: Likes vs. Views.
- Write insights describing trends in video popularity and engagement.