Data Analysis and Modeling Project using SPSS

This repository contains the files and documentation for a data analysis and modeling project conducted using IBM SPSS Statistics. The project explores [brief description of the topic, e.g., "factors affecting customer satisfaction in e-commerce"]. The analysis involves data preprocessing, statistical tests, and predictive modeling.

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Project Structure

Files and Folders:

data/

dataset.sav: The primary dataset used for analysis.

cleaned\_dataset.sav: The preprocessed dataset after cleaning and transformation.

output/

analysis\_results.spo: The SPSS output file containing results of statistical tests and models.

visualizations/: Folder containing exported visualizations (e.g., PNG/JPG files).

docs/

report.pdf: Detailed documentation of the project, including methodology, results, and interpretations.

scripts/

syntax.sps: SPSS syntax file containing all the commands used for the analysis.

README.md: This file, providing an overview and instructions.

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Prerequisites

To open and interact with the .sav and .spo files, you need IBM SPSS Statistics software.

Follow these steps to install SPSS:

1. Download SPSS:

Obtain SPSS software from the official IBM website: SPSS Statistics Download.

Ensure you have a valid license or sign up for a trial version.

2. Install SPSS:

Follow the installation guide specific to your operating system (Windows, macOS, or Linux).

During installation, choose the modules you require, including Regression and Visualization Designer if necessary.

How to View and Run the Project

1. Open SPSS:

Launch SPSS from your system.

2. Load the Dataset:

Go to File > Open > Data.

Navigate to the data/ folder in this repository.

Select dataset.sav or cleaned\_dataset.sav to load the dataset into SPSS.

3. Run Syntax (Optional):

To replicate the analysis:

Open the syntax.sps file in SPSS by going to File > Open > Syntax.

Click Run > All to execute the commands.

4. View Results:

Open output/analysis\_results.spo in SPSS Statistics Viewer to review the results of the analysis.

Use View > Graphs to examine visualizations generated during the analysis.

5. Explore the Documentation:

Refer to docs/report.pdf for a comprehensive understanding of the project.

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Project Highlights

1. Statistical Analysis

[Example: Hypothesis testing for mean differences, correlation analysis.]

2. Predictive Modeling:

[Example: Linear regression, decision tree analysis.]

3. Visualizations:

[Example: Bar charts, scatterplots, histograms.]