**Mini Project 2 Essentials:**

* **Objective:**Identify a solution to a business problem that interest you
* **Project Prompts:**
  1. **Scope** the problem
     1. What is the problem? (**Problem Scoping**)
     2. Who is affected by it and how? (**Stakeholder**)
     3. What is the value in solving the problem? Why solving the problem matters? (**Value Proposition**)
  2. **Source** relevant dataset from previous **post done for Mini Project 1**
  3. **Apply** the data analysis process to derive insights and findings.
     1. **Understand** the data.
     2. **Choose** the part of the **data relevant** to the problem statement.
     3. **Clean the data** in event of missing values and/or duplicate records.
  4. **Present** data-driven insights using data visualizations.
     1. **Identify most suitable charts** (i.e. bar, table, line, etc) to represent these insights in the optimal way.
  5. **Apply Supervised learning models** **taught in any of module 4, 5 or 7** to make predictions & evaluate your predictions.
     1. Decide if you are solving a regression or classification problem (i.e. What is your Y, target variable?)
     2. Remember to follow the ML learning framework: train-test split, .fit, .predict & finally compare the results of predictions with actual Y.
  6. **Make** business **recommendations** based on your findings.
     1. **Suggest areas of improvements** in the business based on the insights delivered.
     2. **Show awareness of the limitation** of the data and suggest what additional data is required for a better analysis.
     3. **State the assumptions** you made in your recommendations.
* **Project Deliverables:**
  1. **Jupyter Notebook** (For analysis in step c, d & e)
  2. **Slides** (For presentation of step a-f)
* **Due Date: 2359**hours of **24th October 24** (Friday)
* **Presentation Format:**
  1. 1 person per project
  2. Business value pitch using **slides** (**8mins**)
  3. Code review of jupyter **notebook** (**5mins**)
  4. **Feedback** from the teaching team & classmates (**3mins**)
* **Presentation Date:** **0900** hours of **25th October 24** (Saturday)

If you have any project related questions, reply in the thread. Meantime, attached is a sample project for your reference.Cheers! Happy predicting! :crystal_ball:Best,  
Sifat