

Data Analytics Application in Real life Scenario Case Study

1. Planning A Friends Birthday Party

PLAN:

- Define the problem such as, what kind of party do we want to throw? what is the budget? what is the guest list?
- Set objectives like creating a memorable party for the birthday person, ensure everyone has fun, stay within budget.

PREPARE:

- Gathering information about guests' preference such as food, drinks, music. Collecting data upon venue options, potential activities, and cost estimates.
- Organizing data by creating spreadsheets or lists to manage guest information, budget, and potential party elements.

PROCESS:

- Cleaning the data by verifying the guest information, refining budget, and finalizing party details.
- Transforming data through calculating costs, creating guest invitations, and developing a party timeline.

ANALYSE:

- Analyse guest preferences to identify common themes.
- Identify potential cost saving measures or opportunities to enhance the party experience.
- Draw conclusions through determining the optimal party theme, venue, menu, and activities based on the analysis.

SHARE:

- Share the party plan with the birthday person and other involved parties.
- Create a visual representation of the party plan such as a timeline, a budget breakdown.

ACT:

- Implement decisions by booking venue, sending invitations, purchase decoration, and prepare food and drink.
- Track expenses and adjust the plan as needed.
- After the party, gather feedback from guests to assess the success of the event.

2. Preparing a Food Recipe

PLAN:

- Define the problem such as, what kind of food do we want to cook? what are the dietary restrictions or preferences of those eating
- Set goals to create a delicious and satisfying meal that meets everyone's needs.

PREPARE:

- Gathering information about the recipe, available ingredients, and kitchen tools.
- Organizing data by creating list of ingredients, their quantities, and the steps involved in the recipe.

PROCESS:

- Cleaning the data by checking if you have all the necessary ingredients and if their quantities are sufficient.
- Transforming data by planning the cooking order based on preparation time.

ANALYSE:

- Explore the data by identifying potential substitutions for missing ingredients or to enhance the flavor profile.
- Determine the optimal cooking method and timing based on the ingredients and desired outcome.

SHARE:

- Discuss the recipe plan with potential diners to ensure it meets their preferences.

ACT:

- Finalize the recipe, including any adjustments based on the analysis.
- Prepare the dish according to the plan.
- Taste the dish as it cooks and make necessary adjustments.