AIgnition Submission Format

## Submission File

* **Format**: Jupyter Notebook (.ipynb) or Google Colab (.ipynb)
* **Filename**: teamname\_projectname.ipynb

## Sections

### Introduction

Brief overview of the problem and the solution approach.

### Libraries and Versions

List all libraries used along with their versions.

Example:

| # Libraries Used %pip install pandas==1.3.3 %pip install scikit-learn==0.24.2 |
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### Input Section

* New Budget as Input
* Select and read one dataset

### Approach and Methodology

| ### Approach and Methodology  \*\*Data Processing\*\*: Describe any data cleaning and preprocessing steps taken with the input data.  \*\*Algorithm\*\*: Explain the algorithm used for budget allocation, including any mathematical formulas, logic or ML Model.  \*\*Assumptions\*\*: List any assumptions made during the process. |
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### Algorithm Implementation

Code implementation of the data cleaning, preprocessing, and algorithm.

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### Results

Present the results obtained from the algorithm, including any visualizations or tables if necessary.

| ### Results  \*\*Input\*\*: 1000 USD  \*\*Output\*\*:  - Facebook: 400 USD  - Google Ads: 300 USD  - Bing/Microsoft Ads: 300 USD  #### Visualizations ![Bar Chart of Budget Allocation](path\_to\_chart.png) |
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### Conclusion

Summarize the findings and potential improvements or future work.

### References

List any references or sources used.

## Submission Instructions

1. Ensure the notebook runs without errors from start to finish.
2. Upload the completed notebook to Mettl.
3. Include any additional files (e.g., images for visualizations) if necessary.