# Potential Write-Up Format

## **1. Introduction**

* ***Intro paragraph***
  + *Why did your team choose this topic?*
  + *Purpose of analysis*
* **SMART Questions**
  + *Your research questions, and how did they come up?*

A head with gears in the brain

Description automatically generated

For this project, our research questions were designed using the **SMART** framework—Specific, Measurable, Achievable, Relevant, and Time-bound. This analysis seeks to answer the following questions:

1. Which variables most influence success or failure?
2. Can a logistic regression model accurately predict the success or failure of a Kickstarter campaign?
3. Can a Decision Tree accurately predict the success or failure of a Kickstarter campaign?
4. What are the top five (5) categories with the highest number of successes?
5. What percentage of all campaigns were successful compared to failed?

Through these questions, we aim to determine if Kickstarter campaign outcomes are predictable and identify which features/attributes contribute to the success of a campaign.

## **2. Dataset Description & Preparation**

**Dataset Overview**

The dataset was sourced from Kaggle and contains 378,661 observations with 15 variables. These variables include:

* **backers:** The total number of backers who supported a project.
* **currency:** The currency in which the project was originally launched.
* **country:** The country from which the project was launched. (*Categorical*)
* **main\_category:** The primary category of the project (e.g., Music, Technology).
* **state:** The final status of the project, indicating whether it was successful, failed, or canceled.
* **usd\_pledged\_real:** The total amount of money pledged to a project in USD.
* **usd\_goal\_real:** The funding goal set by the project creators in USD.

**Data Preprocessing/Cleaning**

* Mention removal of variables or rows
* Any missing /NA?
* Any data type conversions?

**\*\* Data Limitations *(if any)* – Can also go at the end? (see above “Conclusions”)**

## **3. Literature Review (if applicable)**

- Any previous research/ analysis on this?

## **4. Exploratory Data Analysis**

- Descriptive Statistics

- Plots and analysis

**A red and green graph

Description automatically generated**

A screenshot of a graph

Description automatically generated

A screenshot of a graph

Description automatically generated

|  |  |
| --- | --- |
| **Top 5 Categories with the Highest Number of Successful Projects:** | |
| **Main Category** | **Count** |
| Music | 24197 |
| Film & Video | 23623 |
| Games | 12518 |
| Publishing | 12300 |
| Art | 11510 |

Identifying the top five categories with the most successful projects, the table above highlights the areas where Kickstarter campaigns tend to achieve the most success. These categories are Music, Film & Video, Games, Publishing, and Art, with Music accounting for the greatest number of successful projects with a value of 24,197, followed closely by Film and Video with 23,623 successful projects.

To make these insights more visually appealing and intuitive, these values can be represented in a bar chart as seen below:

## **A graph of a number of backers Description automatically generatedA graph of a bar chart Description automatically generated with medium confidence**

## **5. Modeling Techniques & Evaluation**

- *How did you select and determine the correct model to answer your question?*

*- Build Models*

*- Analyze/ Evaluate Models using evaluation metrics?*

**Logistic Regression**

## **6.Discussion**

*- Interpret results*

*- What Predictions Can You Make from Your Models? Examples?*

*- How good is your model?*

- *How reliable are your results?*

\*\* LIMITATIONS:

*- What additional information or analysis might improve your model results or work to control limitations?*

## **7. Conclusion.**

- Summary

- How Do These Answer the Research Questions?

## **8. References (APA Style)**