

PROJECT PROPOSAL



PREDICTING MOVIE SUCCESS USING LOGISTIC REGRESSION



PRESENTED BY

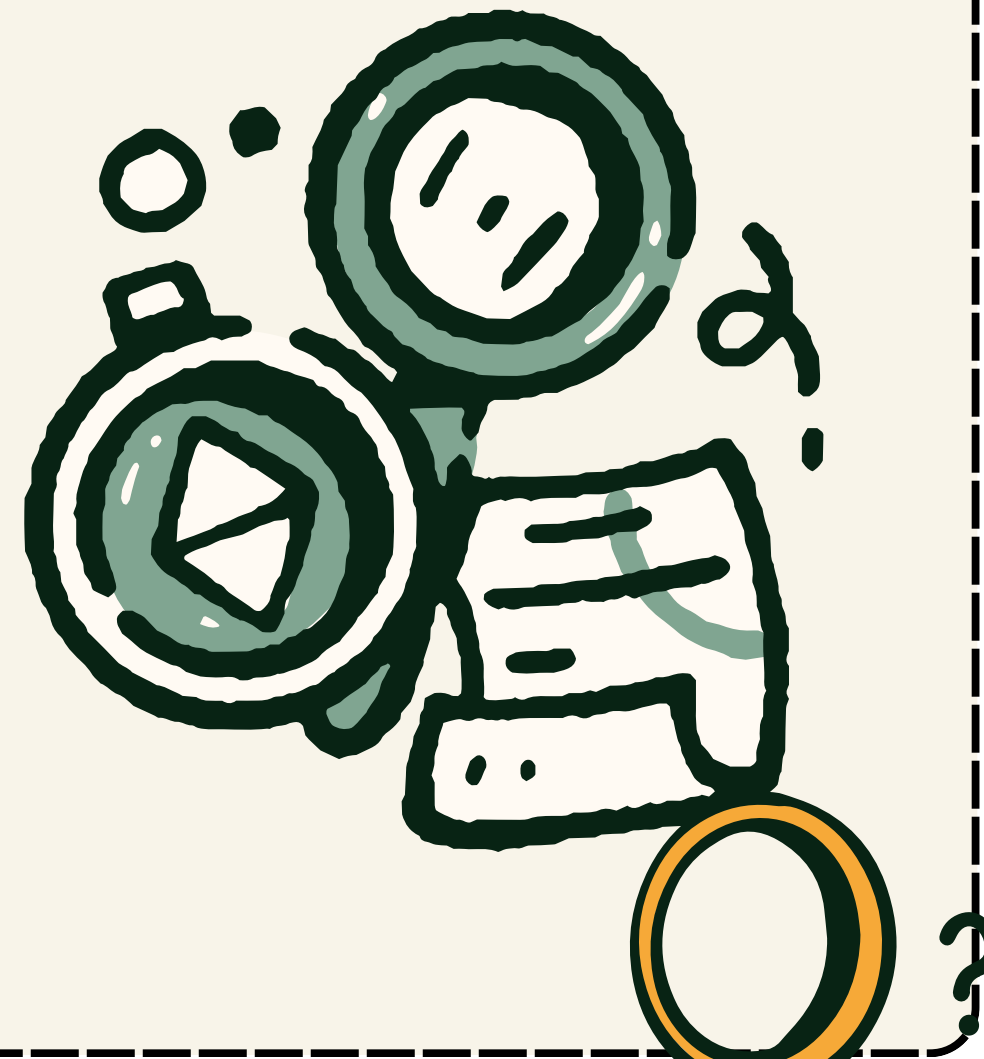

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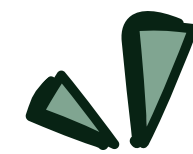
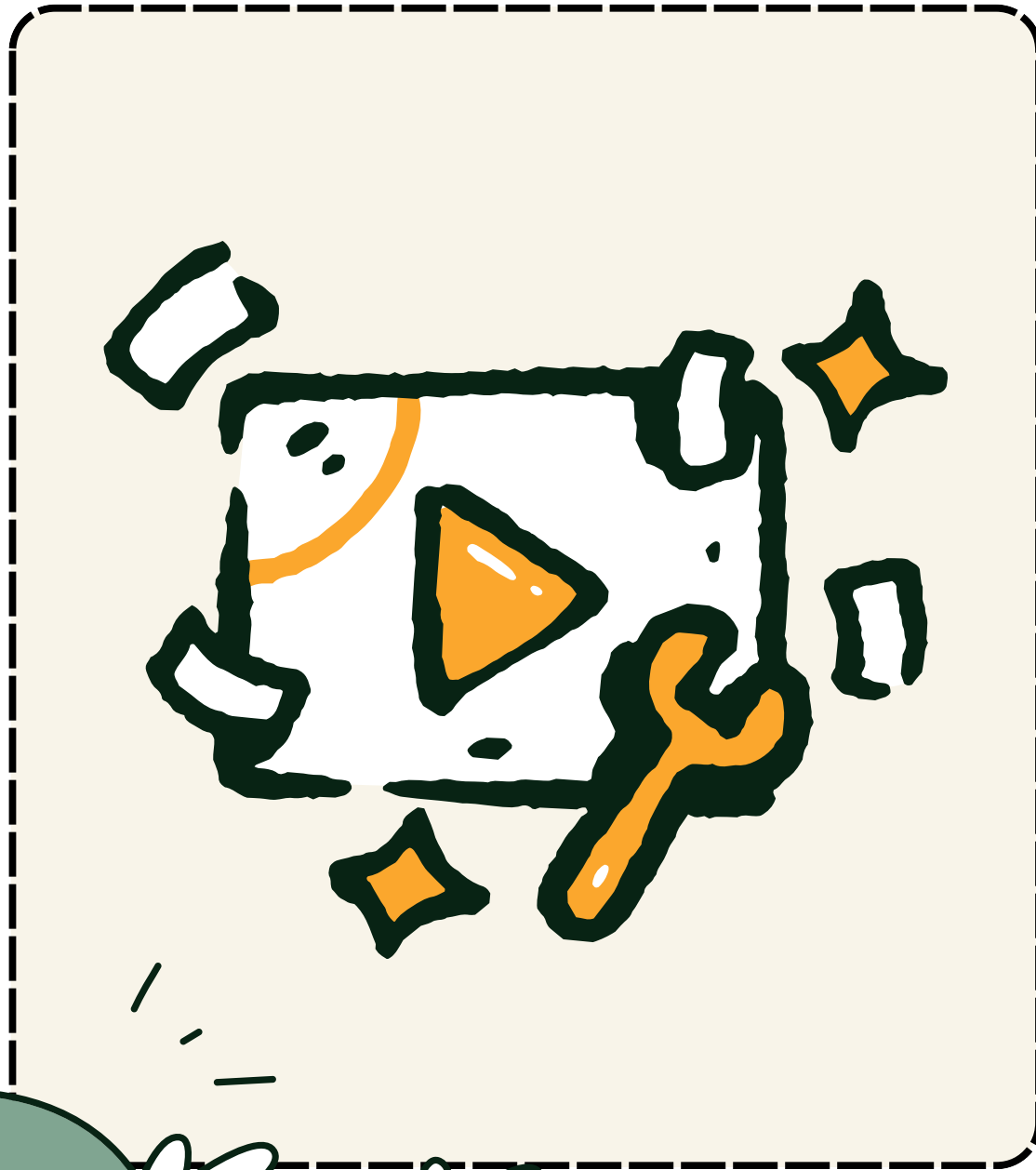




PROBLEM STATEMENT

Can we predict whether a movie will be successful or not based on its metadata (e.g., budget, runtime, genre, and other pre-release attributes)?





TYPE OF PROBLEM & STATISTICAL MODEL

Type of Problem:

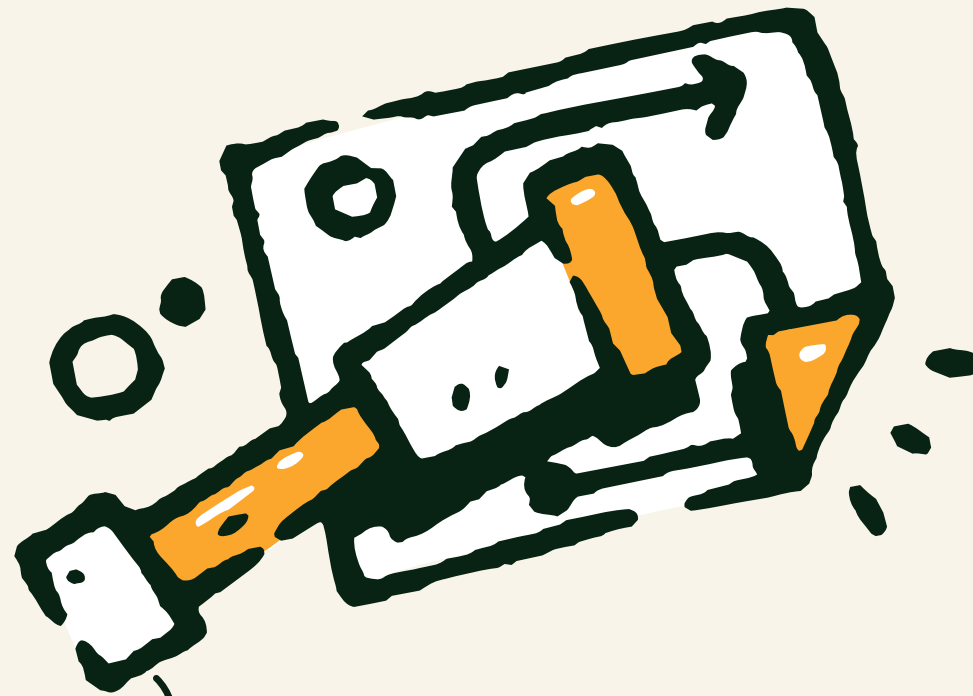
- Binary Classification Problem
- Predictive Modeling Task



STATISTICAL TECHNIQUE CHOSEN

Logistic Regression






LOGISTIC REGRESSION

- A statistical model used for binary classification.
- Estimates the probability that a given input belongs to a particular category.
- Uses the sigmoid function to output a value between 0 and 1.
- Predicts outcomes like “Success (1)” or “Not Success (0)”.





KEY FEATURES

- Interpretable coefficients (odds ratios)
 - Useful for hypothesis testing
 - Performs well with clean, linearly separable data
- 





WHERE WILL THE DATA COME FROM?

- Source: TMDB / Kaggle (5,000+ movies)
- Features: Budget, Genre, Runtime, Country, Vote Count, Revenue





OR





CREATING OUR OWN DATASET USING TBDB API

- Can extract any data from any time
- We can clean the data and use however we want.
- Would include the required attributes for this project.





THANK YOU

