

Comparing Critics to the General Public: Who is a better predictor of a movie's success?

Jacob Inwald and Ollie Jones

March 26, 2023

1 Overview

This report analyzes the relationship between different aspects of a movie and its gross income. These aspects include director list, actor list, runtime and so on. To investigate these relationships, we looked at a comprehensive dataset compiled by the movie ranking website IMDB.com. This dataset includes information about a movie like the director, the actors, the genre.

We found ..

2 Introduction

Context and motivation What is the area of this data science study, and why is it interesting to investigate?

Previous work Brief description of any previous work in this area (e.g., in the media, or scientific literature or blogs).

E.g. Recent surveys show that most students prefer final projects to final exams [Space2021].

Objectives What questions are you setting out to answer?

3 Data

Data provenance Who created the dataset(s)? How you have obtained it (e.g., file or web scraping), and do the T&Cs allow you to use obtain the data for the project?

Data description Description of the data, e.g. variables in each table, number of records.

Data processing How you have processed the dataset, e.g., cleaning, removing missing values, joining tables.

4 Exploration and analysis

A data science analysis of the paper, including:

- Visualisations (for example Figure ??) and tables (for example Table ??). Please make sure that all figures and tables are referred to in the text, as demonstrated in this bullet point.
- Interpretation of the results

- Description of how you have applied one or more of the statistical and ML methods learned in the FDS to the data
- Interpretation of the findings

You can use equations like this:

$$\bar{x} = \sum_{i=1}^n x_i \quad (1)$$

or maths inline: $E = mc^2$. However, you do not need to reexplain techniques that you have learned in the course – assume the reader understands linear regression, logistic regression K-nearest neighbours etc. Remember to explain any symbols use, e.g. “ n is the number of data points and x_i is the value of the i th data point.”.

5 Discussion and conclusions

Summary of findings

Evaluation of own work: strengths and limitations

Comparison with any other related work E.g. “Anscombe has also demonstrated that many patterns of data can have the same correlation coefficient” [anscombe1973graphs].

Wikipedia can also be cited but it is better if you find the original reference it for a particular claim in the list of references on the Wikipedia page, read it, and cite it.

The golden rule is always to cite information that has come from other sources, to avoid plagiarism [wiki:plagiarism].

Improvements and extensions

Table 1: Excerpt from Scottish Index of Multiple Deprivation, 2016 edition. <https://simd.scot>. You may put more information in the caption.

Location	Employ- ment	Illness	Attain- ment	Drive Primary	Drive Secondary	Crime	...
Macduff	10	95	5.3	1.5	6.6	249	...
Kemnay	3	40	5.3	2.4	2.4	168	...
Hilton	0	10	6.3	2.2	3.0	144	...
Ruchill	8	130	4.9	1.7	5.6	318	...
Belmont	2	50	6.1	3.1	3.2	129	...
...

