

A decorative graphic on the left side of the slide featuring a blue parallelogram and a light green parallelogram, both tilted at an angle, set against a dark blue background with subtle diagonal lines.

# **New Film Studio:** Guidance and Direction for Film Production

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# Key Items To Keep In Mind

## 1. We Used Data from IMDB and TheNumbers

- Merged IMDB film data with TheNumbers film financial data
- Only utilized films where we had financial data

## 2. Statistical Tests Executed

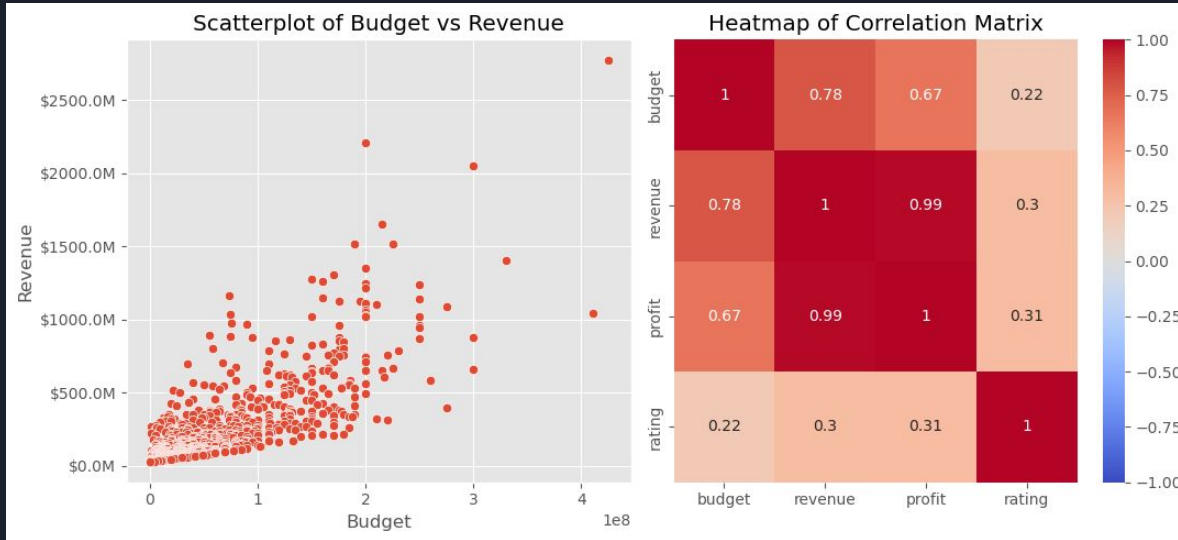
- Correlation Coefficient to compare Budget and Revenue
- T-test to compare average revenue across different seasons of the year
- ANOVA tests to compare average revenues across different performing genres

## 3. Business Recommendations

- Plan for higher budget production to maximize returns.
- Film releases during the spring months creates more sales.
- Focus production towards profitable and compelling genres.

## Recommendation 1:

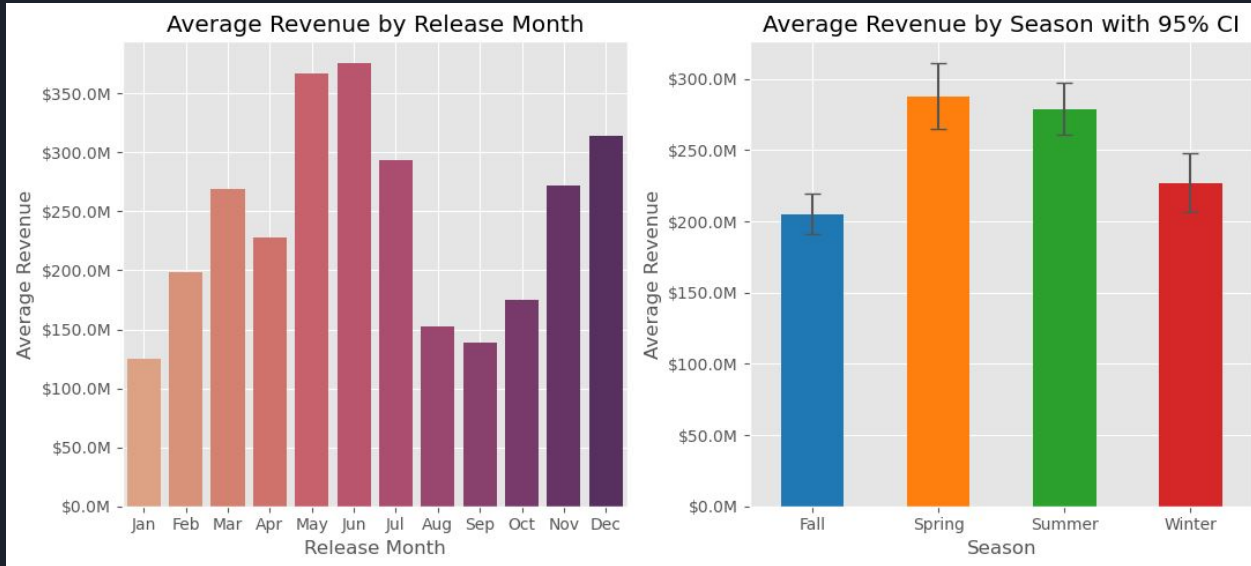
**Plan for higher budget production to maximize returns.**



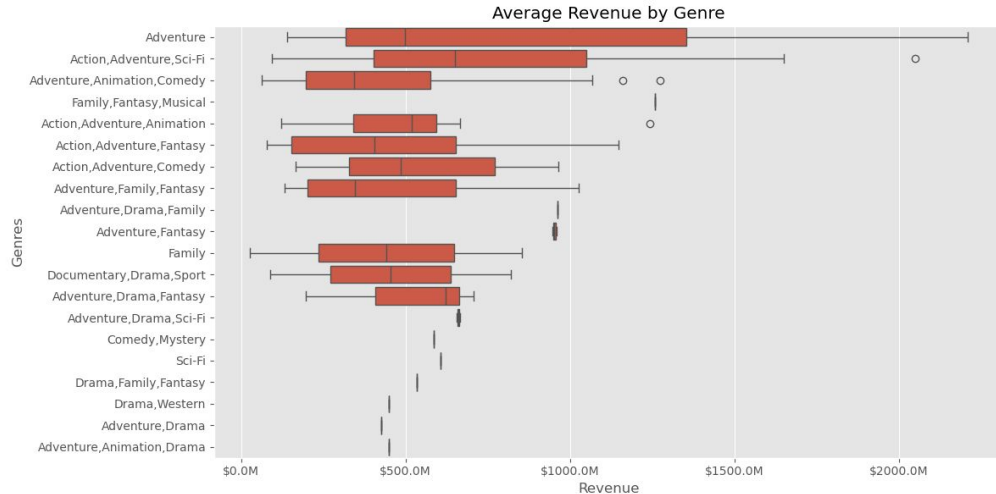
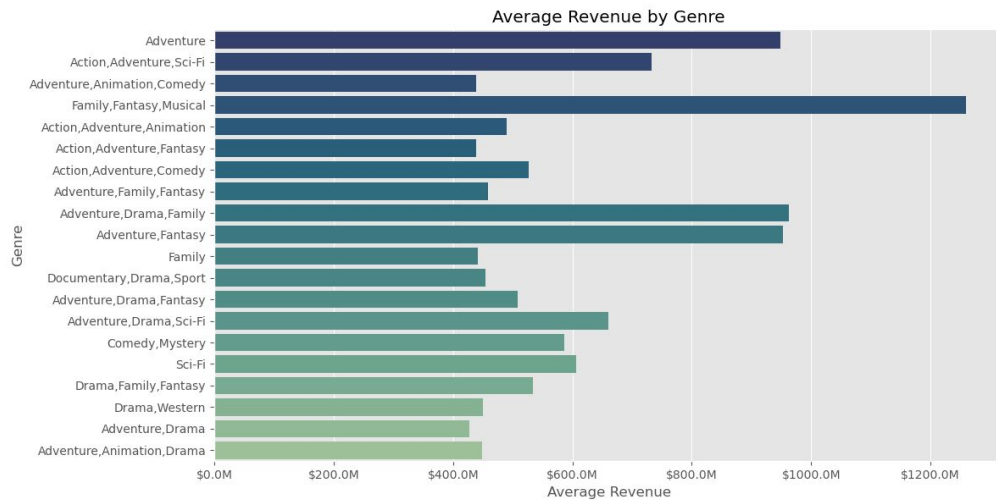
- Relationship between Budget and Revenue
  - Shows a positive trend
  - Correlation Coefficient of 0.78, close to +1
- The data has shown, as budget increases, revenue also increases.
- It is worth investing in a higher budget film as it proportionately connects to higher box-office revenues.

## Recommendation 2:

Film releases during the spring months creates more sales.



- Relationship between Revenue and Release Month
  - T-statistic: 2.2274083467843964,
  - P-value: 0.026169372030560103
- P-value is lower than our significance level of 0.05
  - We reject our null hypothesis
- Films released during spring months perform better than other seasons.



### Recommendation 3:

**Focus production towards profitable and compelling genres.**

- Relationship between Revenue and Genre
  - F-statistic: 2.83,
  - P-value:  $5.19 \times 10^{-23}$
  - Significant Difference between avg revenues and genres
- P-value < 0.05
  - We reject our null hypothesis.
- Produce films with aspects of the genre-groups that are proven to drive success.



# Summary

- Plan for a higher-budget film
  - Higher budget films correlate positively with revenue
  - Doesn't imply causation, coefficient is a good predictor
- Release films during Spring months
  - Spring films generate higher average revenues compared to other times of the year
  - Stats test show this difference in average revenue across different seasons is statistically significant
- Focus production towards profitable genres
  - By focusing on genre categories that people love and proven to drive results, we can infer good results from performing genres
  - Stats test show that the difference in average revenues across different genres are statistically significant

**QUESTIONS?**

