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PREDICTION SUMMARY:

FEATURES USED:

After preprocessing and dropping the Non-numeric fields, the model uses following features:

- 1. Year
- 2. Runtime(Minutes)
- 3. Rating
- 4. Votes
- 5. Revenue(Millions)
- 6. Sentiment(from the movie description)

MODEL PERFORMANCE:

On the test set -20% split

- R^2 score: Measures how well predictions approximate actual outcomes .
 - → Interpretation: Approximately **66%** of the variance in movie success is explained by the model.
- Mean Absolute Error(MAE): Average magnitude of errors between predicted and actual success.
 - → Interpretation: On average, the model's predictions are off by **0.20 units** success.

INSIGHTS:

- Rating, revenue and votes have a strong positive effect on movie"s success prediction.
- Sentiment Score and runtime have a slightly positive impact.
- Metascore shows a moderate positive effect.
- Year has a small but positive effect.

This concludes that well rated, widely watched and highly-revenue films with positive descriptions tend to be more successful.