

Analyzing Movies to Predict their Commercial Viability for Producers

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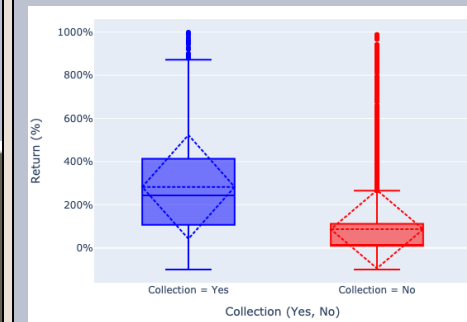
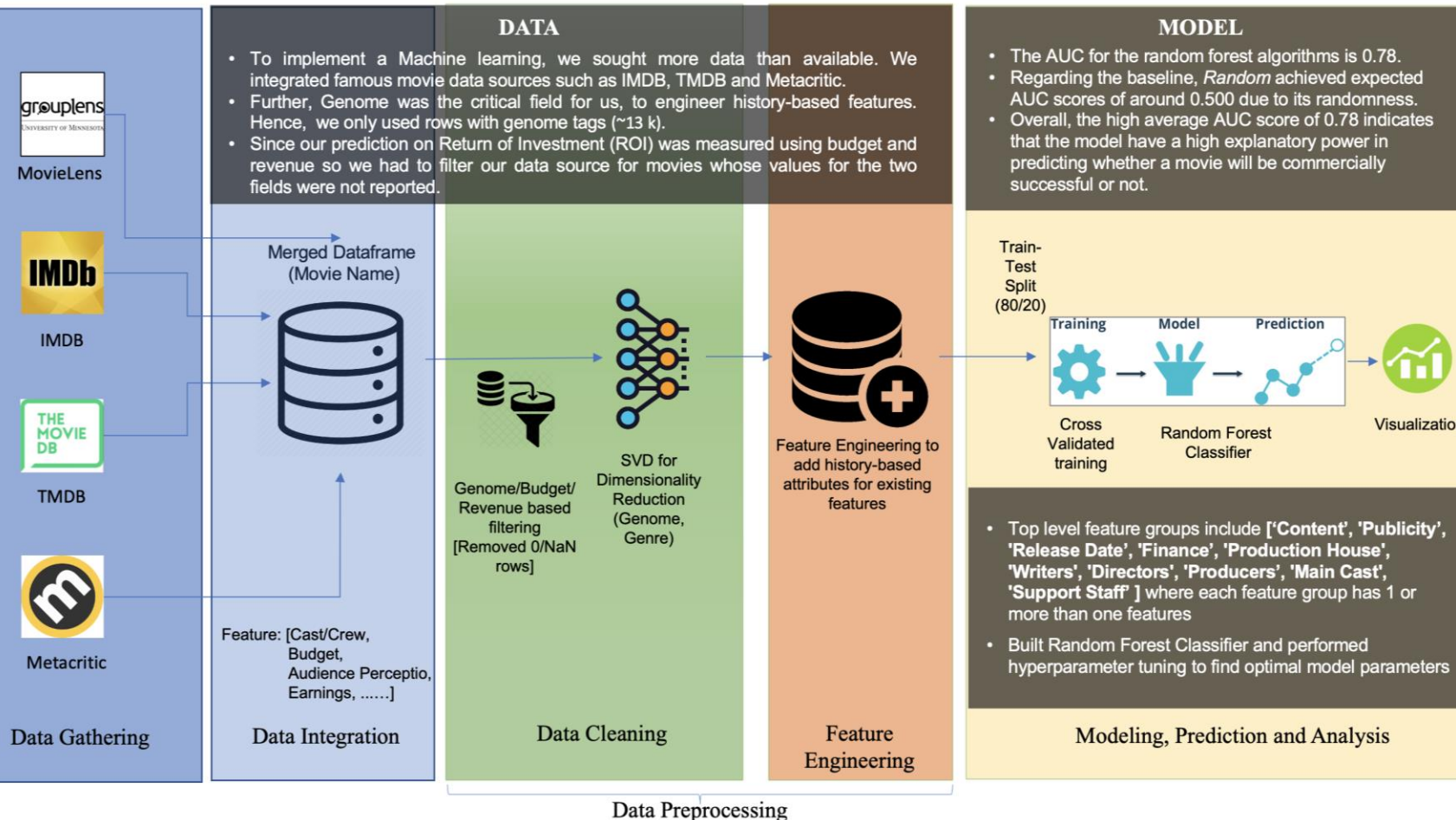
Highlights

- ❖ A Machine Learning model predicting Return on Investment (ROI) slab for an upcoming movie based on its pre-release attributes.
- ❖ The study provides a set of individual and groups of features, that contribute majorly to a production's success.
- ❖ The features considered in this study may have potential application in solving other movie industry problems

Background

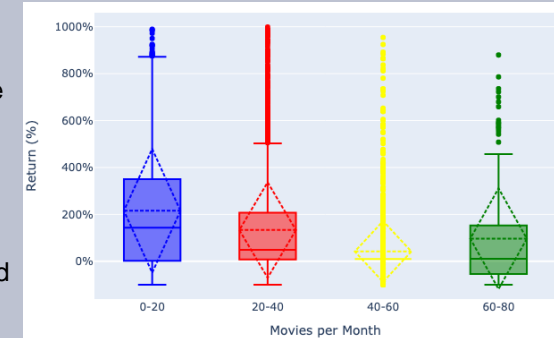
Producing major films costing \$100M+, needs an estimate of expected positive cashflow in returns, for investors to make the decisions. Understanding features contributing towards commercial success of a production can help make data driven decisions.

Architecture

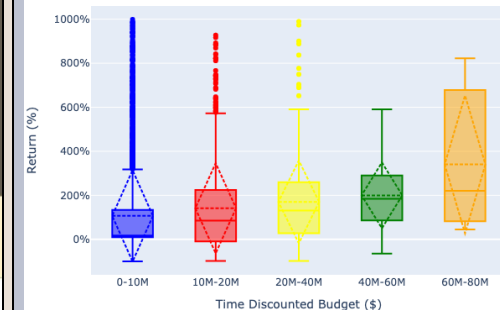


Collection (Is the movie part of a series) is the most important feature identified for prediction. This curve demonstrates that productions that are part of a series have seen higher ROI on average.

Movie per month, demonstrates the competition for a movie. As expected, when there is less competition the movies get a good ROI.



Distribution of Expected return vs Time Discounted Budget



Again, as expected, Average ROI over given Time Discounted Budget (handling inflation over time) of a movie is directly proportional. Higher Budget, higher ROI.