The analysis that is being performed as follow. Our group was to use movie data and determine the optimal release dates for movies based on the time of year and genre. This information could help the entertainment industry maximize gains made from movies as well as be an important tool for independent studios lacking a big budget. The machine learning model that we will be utilizing in this project reflect our database is random forest and decision tree within the scoop of supervise learning. The x variable is release date and our y variable is revenue. With decision tree we are building the foundation to create our random forest model. When we use the random forest model, we will be constructing a multitude of decision trees that will reflect revenue versus release date to prediction of the individual trees. With that information we will see the trends how movies performed base on the analysis results through machine learning.