I am a film producer trying to find the best ways to optimize the movie net promoter score (NPS) for the next film for Wayward Film Producer Company. With movie data from 1980 – 2005, I want to discover what the ideal optimization for budget, genre, rating, and any other criteria to get the highest movie NPS. Looking at the preliminary analysis, I was able to return to find this data:

```
listed = []
for i in xrange(20):
   X = nonull_combined_data[cols]
   y = nonull combined data['movie nps']
   X_train, X_test, y_train, y_test = train_test_split(X,y,test_size
   linear = linearR(X_train, X_test, y_train, y_test)
   ridge = ridgeCVs(X train, X test, y train, y test)
   lineartrain = linear_train(X_train, X_test, y_train, y_test)
   listed.append((linear, ridge, lineartrain))
[(0.35854221466659481, 0.4006317494905054, 0.35854221466659481),
 (0.24049028502388448, 0.30240481150338672, 0.24049028502388448),
 (0.20459133459482126, 0.2497091695117524, 0.20459133459482126),
 (0.36191173904187524, 0.40934138830372713, 0.36191173904187524),
 (0.23238562118915806, 0.30967388274514762, 0.23238562118915806),
 2),
 (0.18698433788639057, 0.36845409492578335, 0.18698433788639057),
 (0.2854157250427356, 0.30846886235245241, 0.2854157250427356),
 (0.32924150271485908, 0.3805606704766602, 0.32924150271485908)
 (0.29823164176989769, 0.35547106693536301, 0.29823164176989769),
 (0.36291812387246902, 0.3930064595383933, 0.36291812387246902),
 (0.24993180829516604, 0.32008450859830551, 0.24993180829516604),
  (0.38326149100927764,\ 0.41068371127829462,\ 0.38326149100927764), 
 (0.16728571295657244, 0.29510154126417032, 0.16728571295657244),
 (0.3269539673675016, 0.3768699392167234, 0.3269539673675016),
 (0.27722625407321166, 0.29795936897708808, 0.27722625407321166),
 (0.30428747975477222, 0.36039498926528168, 0.30428747975477222),
 (0.32135330391974626, 0.34148694809475072, 0.32135330391974626),
 (0.090445821805830384, 0.30080708337215722, 0.090445821805830384),
 (0.37491962771760662, 0.3933855298246261, 0.37491962771760662)]
```

With this preliminary analysis, we will try to find another model that optimizes the highest score. We should be able to make a choice of specific movie variables and optimize for highest NPS.