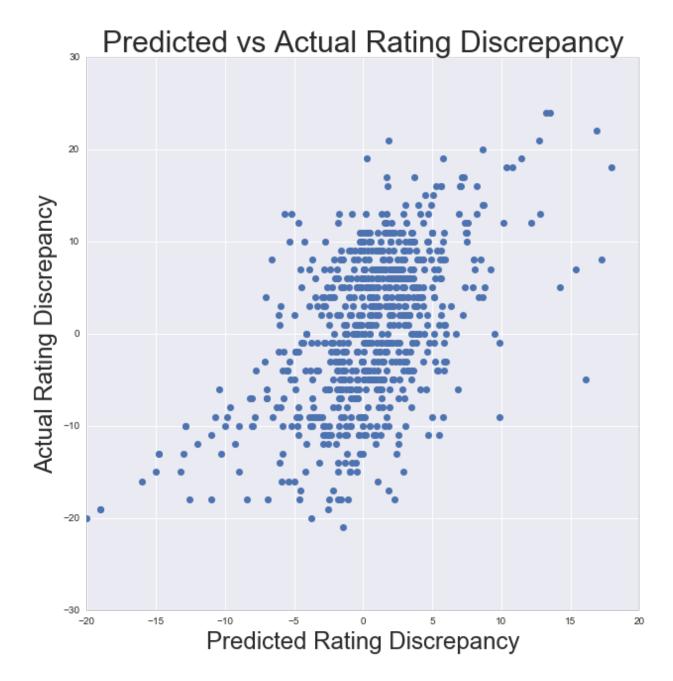
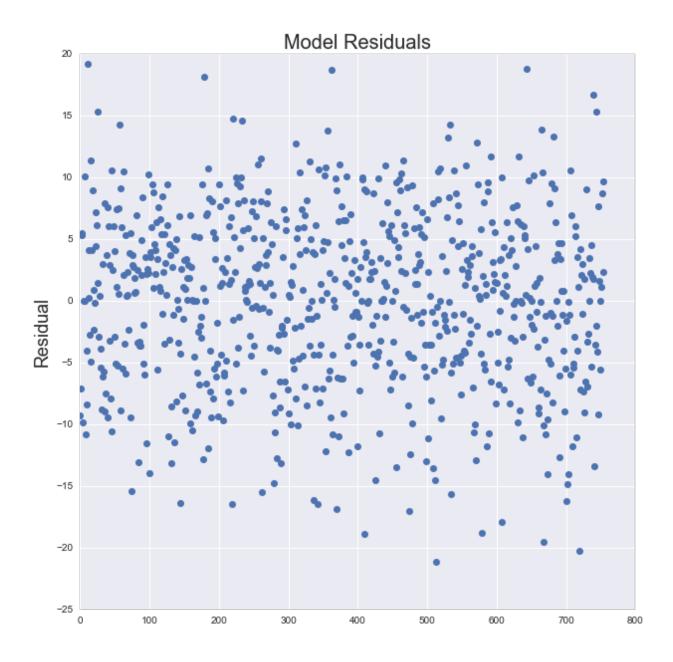
For this project I am attempting to predict the discrepancy between critic opinion and the general public's opinion for movies. I am using Metacritic scores as a proxy for critic opinion, and IMDB user scores as a proxy for general public opinion as the majority of IMDB users are not professional movie critics. The features of my model include gross revenue, budget, run time, the amount of Oscars the film won, the amount of IMDB reviews that the film has on the IMDB website, and fixed effects for MPAA rating, genre, and year it was released. After looking at the pairwise plot for all of the variables, I decided to add a log term for gross revenue and a quadratic term for Oscar wins. The following tables and graphs show my model performance:

Dep. Variable:	crit_discrep	R-squared:	0.294
Model:	OLS	Adj. R-squared:	0.225
Method:	Least Squares	F-statistic:	4.211
Date:	Tue, 04 Oct 2016	Prob (F-statistic):	1.11e-22
Time:	17:31:03	Log-Likelihood:	-2530.5
No. Observations:	755	AIC:	5199.
Df Residuals:	686	BIC:	5518.
Df Model:	68		
Covariance Type:	nonrobust		

log_gross	-0.5318	0.223	-2.380	0.018	-0.971 -0.093
square_oscars	0.1845	0.081	2.292	0.022	0.026 0.343
Run_Time	0.0411	0.016	2.563	0.011	0.010 0.073
Oscar_Wins	-3.5281	0.526	-6.703	0.000	-4.562 -2.495
IMDB_Reviews	1.361e-05	1.73e-06	7.849	0.000	1.02e-05 1.7e-05
Gross_Revenue	-8.332e-10	3.69e-09	-0.226	0.821	-8.07e-09 6.41e-09

Omnibus:	7.574	Durbin-Watson:	2.020
Prob(Omnibus):	0.023	Jarque-Bera (JB):	7.734
Skew:	-0.241	Prob(JB):	0.0209
Kurtosis:	2.886	Cond. No.	2.22e+19





Clearly my model will have to be refined further, as the residuals do not hover around zero and predicted vs actual rating discrepancy line is loosely fit.