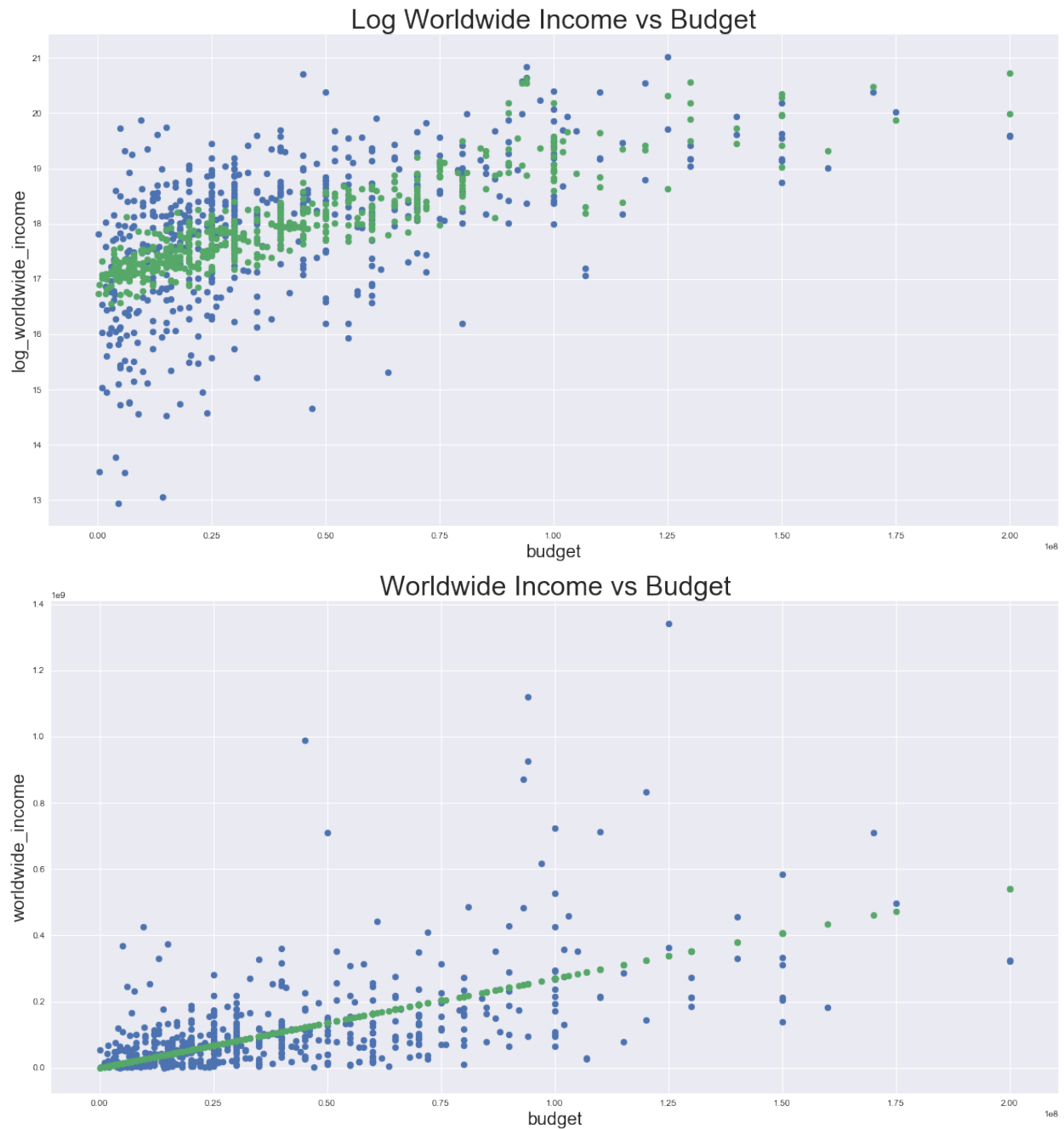


This model aims to predict cumulative worldwide income of a motion picture that is predicated on a theme of 'drama' (keeping in mind that dramas might also fall into the category of 'adventure' or 'romance', etc.). The following charts give us a sense of gross worldwide income as correlated with the investment.



Having fit our model, it seems that we will be able to infer a relationship between worldwide income and:

- Budget
- Achievements of actors
- Achievements of actresses
- Imdb score
- Some genres

However, further investigation is required for analysis.

OLS Regression Results

Dep. Variable:	worldwide_income	R-squared:	0.584			
Model:	OLS	Adj. R-squared:	0.573			
Method:	Least Squares	F-statistic:	51.73			
Date:	Wed, 24 Jan 2018	Prob (F-statistic):	1.14e-88			
Time:	17:16:47	Log-Likelihood:	-10516.			
No. Observations:	530	AIC:	2.106e+04			
Df Residuals:	515	BIC:	2.113e+04			
Df Model:	14					
Covariance Type:	nonrobust					
	coef	std err	t	P> t	[0.025	0.975]
Intercept	7.828e+07	4.57e+07	1.713	0.087	-1.15e+07	1.68e+08
budget	1.8165	0.143	12.689	0.000	1.535	2.098
director_nominee	-1.047e+07	1.82e+07	-0.577	0.564	-4.61e+07	2.52e+07
actor_nominee	-2.666e+07	9.84e+06	-2.708	0.007	-4.6e+07	-7.32e+06
actress_nominee	2.266e+07	9.25e+06	2.450	0.015	4.49e+06	4.08e+07
comedy	1.983e+06	1.17e+07	0.169	0.866	-2.1e+07	2.5e+07
biography	1.663e+07	1.6e+07	1.040	0.299	-1.48e+07	4.81e+07

	romance	7.918e+06	1.09e+07	0.729	0.466	-1.34e+07	2.93e+07
	sport	-1.401e+07	2.34e+07	-0.600	0.549	-5.99e+07	3.19e+07
	thriller	-1.32e+07	1.17e+07	-1.132	0.258	-3.61e+07	9.71e+06
	crime	-1.807e+07	1.24e+07	-1.462	0.144	-4.23e+07	6.21e+06
	adventure	6.032e+07	1.41e+07	4.278	0.000	3.26e+07	8.8e+07
budget & director_nominee		-1.146e-08	3.86e-09	-2.966	0.003	-1.91e-08	-3.87e-09
budget & actor_nominee		3.632e-08	1.23e-08	2.954	0.003	1.22e-08	6.05e-08
budget & actress_nominee		7.865e+06	2.63e+07	0.300	0.765	-4.37e+07	5.95e+07
budget & comedy		7.865e+06	2.63e+07	0.300	0.765	-4.37e+07	5.95e+07
budget & biography		0	0	nan	nan	0	0
budget & romance		7.865e+06	2.63e+07	0.300	0.765	-4.37e+07	5.95e+07
budget & sport		7.865e+06	2.63e+07	0.300	0.765	-4.37e+07	5.95e+07
budget & thriller		0	0	nan	nan	0	0
budget & crime		0	0	nan	nan	0	0
budget & adventure		0	0	nan	nan	0	0
imdb_score		-1.416e+07	6.54e+06	-2.164	0.031	-2.7e+07	-1.3e+06
num_voted_users		385.5084	26.498	14.548	0.000	333.450	437.566
Omnibus:	292.906	Durbin-Watson:	2.144				

Prob(Omnibus):	0.000	Jarque-Bera (JB):	6470.548
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Skew:	1.935	Prob(JB):	0.00
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Kurtosis:	19.674	Cond. No.	4.29e+74
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