[(base) youli@MacFishBook-Pro FQ_2023 % python3 linear.py OLS Regression Results

Dep. Variable:	FlairPolarity	R-squared:	0.021
Model:	OLS	Adj. R-squared:	0.004
Method:	Least Squares	F-statistic:	1.278
Date:	Sun, 19 Nov 2023	Prob (F-statistic):	0.260
Time:	11:58:02	Log-Likelihood:	-328.70
No. Observations:	435	AIC:	673.4
Df Residuals:	427	BIC:	706.0
Df Model:	7		

Covariance Type: nonrobust

	coef	std err	t	P> t	[0.025	0.975]
const	1.2668	1.801	0.704	0.482	-2.272	4.806
case number	-0.0003	0.000	-0.711	0.478	-0.001	0.001
death number	0.0036	0.014	0.252	0.801	-0.025	0.032
length	1.054e-05	1.02e-05	1.037	0.300	-9.44e-06	3.05e-05
Week_Number_1	-0.2062	0.124	-1.660	0.098	-0.450	0.038
Week_Number_2	0.0062	0.003	1.973	0.049	2.3e-05	0.012
Week_Number_3	-7.379e-05	3.41e-05	-2.162	0.031	-0.000	-6.71e-06
Week_Number_4	2.995e-07	1.32e-07	2.271	0.024	4.03e-08	5.59e-07

Omnibus:	248.945	Durbin-Watson:	2.017
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1127.867
Skew:	2.702	Prob(JB):	1.22e-245
Kurtosis:	8.747	Cond. No.	1.80e+09

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

[2] The condition number is large, 1.8e+09. This might indicate that there are strong multicollinearity or other numerical problems.

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Dep. Variable:	Flair		R-squared:		0.175		
Model:	OLS		Adj. R-squared:		0.167		
Method:	Least Squares				21.91		
			Prob (F-statistic):				
Time:			3		-554.81		
No. Observations:		1256			1136.		
Df Residuals:			BIC:		12	02.	
Df Model:		12					
Covariance Type:							
	coef	std err	t	P> t	[0.025	0.975	
const	-0.9680	1.101	-0.879	0.380	-3.128	1.192	
case number	-8.324e-06	9.31e-06	-0.894	0.372	-2.66e-05	9.95e-0	
death number			2.425		0.000	0.003	
length	3.432e-05	4.41e-06	7.776	0.000	2.57e-05		
Type_Prison	0.6884	0.660	1.043	0.297	-0.606	1.98	
Level_Federal	0.2896	0.665	0.435	0.663	-1.016	1.59	
Level_State	-0.5351	0.655	-0.817	0.414	-1.820	0.75	
Level_Federal Level_State Type_case number	-0.0003	0.000	-1.284	0.663 0.414 0.199	-0.001	0.000	
Type_death number	-0.0031	0.008	-0.378	0.705	-0.019	0.013	
Week_Number_1	-0.0389	0.068	-0.574	0.566	-0.172	0.094	
Week_Number_2	0.0015	0.002	0.987	0.324	-0.001		
Week_Number_3	-1.982e-05	1.51e-05	-1.310	0.191	-4.95e-05		
			1.538				
Omnibus:			====== Durbin-Watso		1.	663	
Prob(Omnibus):			Jarque-Bera (JB):		9590.703		
Skew:			Prob(JB):	-		.00	
Kurtosis:		14.927					

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^[1] Standard Errors assume that the covariance matrix of the errors is correctly specified. [2] The condition number is large, 5.05e+09. This might indicate that there are strong multicollinearity or other numerical problems.

Dep. Variable:	======================================		======================================		0.179	
Model:			Adi. R-squared:		0.171	
Method:	Least Squares				20.88	
Date:	Sun, 19 Nov 2023				3.23e-45	
Time:	15:37:56		Log-Likelihood:		-551.13	
No. Observations:		1256	AIC:		1130.	
Df Residuals:		1242	BIC:		12	202.
Df Model:		13				
Covariance Type:	n	onrobust				
==========	coef	std err	t	P> t	[0.025	0.975
const	 -0.9377	1.098	-0.854	0.393	-3.093	1.217
case number	-9.183e-06	9.3e-06	-0.988	0.323	-2.74e-05	9.06e-0
death number	0.0016	0.001	2.089	0.037	9.66e-05	0.003
length	4.428e-05	5.74e-06	7.710	0.000	3.3e-05	5.55e-0
Type_Prison	0.4808	0.663	0.726	0.468	-0.819	1.783
Level_Federal	0.5807	0.672	0.864	0.388	-0.738	1.90
Level_State	-0.2565	0.661	-0.388	0.698	-1.554	1.043
Type_case number	-0.0003	0.000	-1.436	0.151	-0.001	0.000
Type_death number	-0.0014	0.008	-0.169	0.866	-0.018	0.01
Type_length	-2.415e-05	8.94e-06	-2.701	0.007		-6.61e-0
Week_Number_1		0.067	-0.620	0.535	-0.174	0.091
Week_Number_2	0.0016	0.002	1.027	0.304		0.00
	-2.027e-05		-1.343	0.180		
	8.528e-08	5.45e-08	1.564	0.118	-2.17e-08	1.92e-07
Omnibus: Prob(Omnibus):		879.034	Durbin-Watson: Jarque-Bera (JB):		1.663	
Skew:		0.000 3.253	•	JD):	9876.018	
skew: Kurtosis:		3.253 15.099	Prob(JB): 0.00 Cond. No. 5.09e+09			
VAL COSTS:		TO.023	Cona. No.		5.096	5T07

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^[1] Standard Errors assume that the covariance matrix of the errors is correctly specified. [2] The condition number is large, 5.09e+09. This might indicate that there are

strong multicollinearity or other numerical problems.