

Advertising



	feature	original_feature	engineering	type	r2_score
0	TV_mean_imputed	TV	mean_imputed	numeric	0.565044
1	radio_mean_imputed	radio	mean_imputed	numeric	0.275069
2	newspaper_mean_imputed	newspaper	mean_imputed	numeric	0.023085

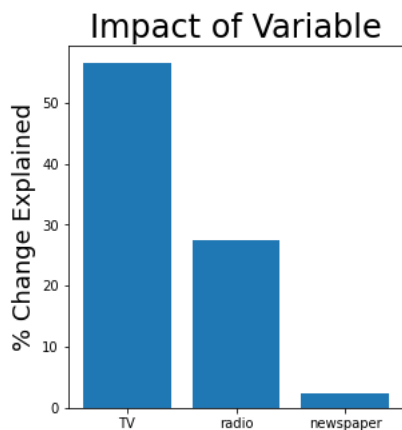
Main Model Summary

Method:	Least Squares	F-statistic:
Date:	Thu, 13 Oct 2022	Prob (F-statistic):
Time:	23:39:19	Log-Likelihood:
No. Observations:	200	AIC:
Df Residuals:	197	BIC:
Df Model:	3	
Covariance Type:	nonrobust	

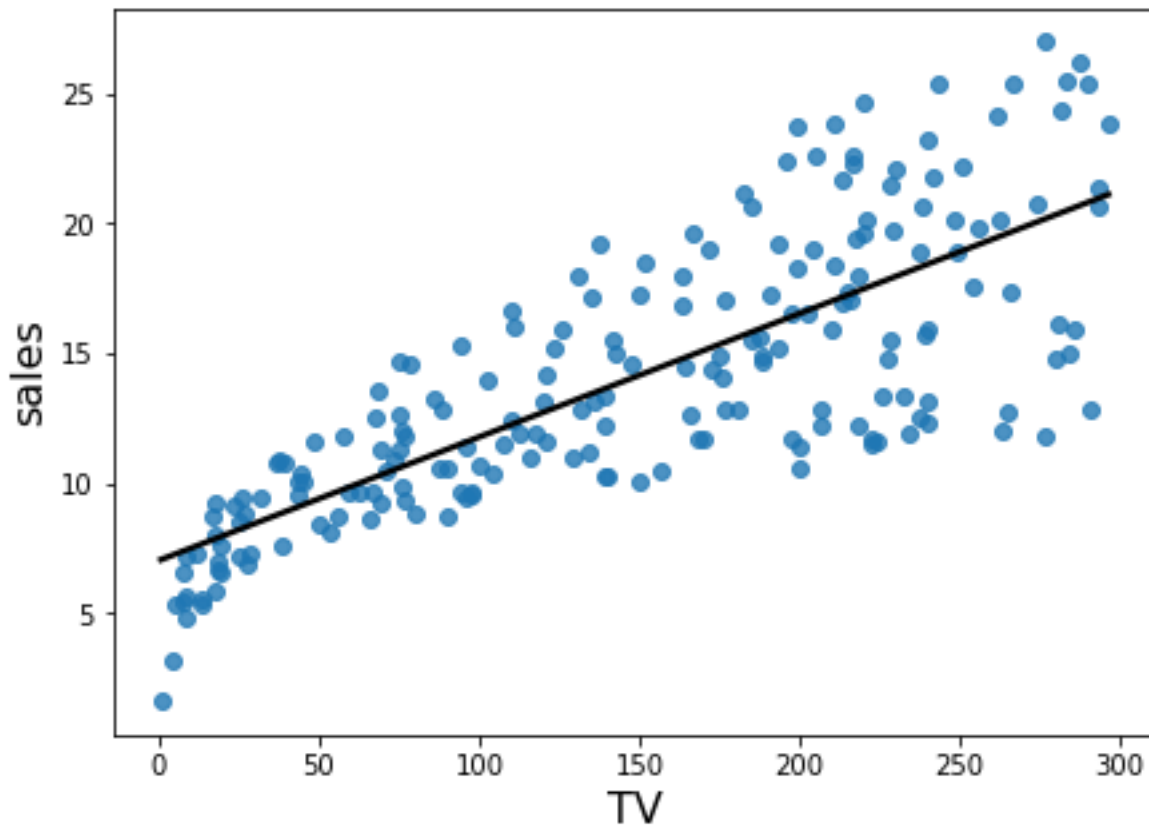
	coef	std err	t	P> t
TV_mean_imputed	0.0538	0.001	40.507	0.000
radio_mean_imputed	0.2222	0.009	23.595	0.000
newspaper_mean_imputed	0.0168	0.007	2.517	0.013
Omnibus:	5.982	Durbin-Watson:		
Prob(Omnibus):	0.050	Jarque-Bera (JB):		
Skew:	-0.232	Prob(JB):		
Kurtosis:	3.794	Cond. No.		

Notes:

- [1] R^2 is computed without centering (uncentered) since the model does
- [2] Standard Errors assume that the covariance matrix of the errors is



TV vs sales



Variable Type: numeric

Engineering: mean_imputed

OLS Regression Results

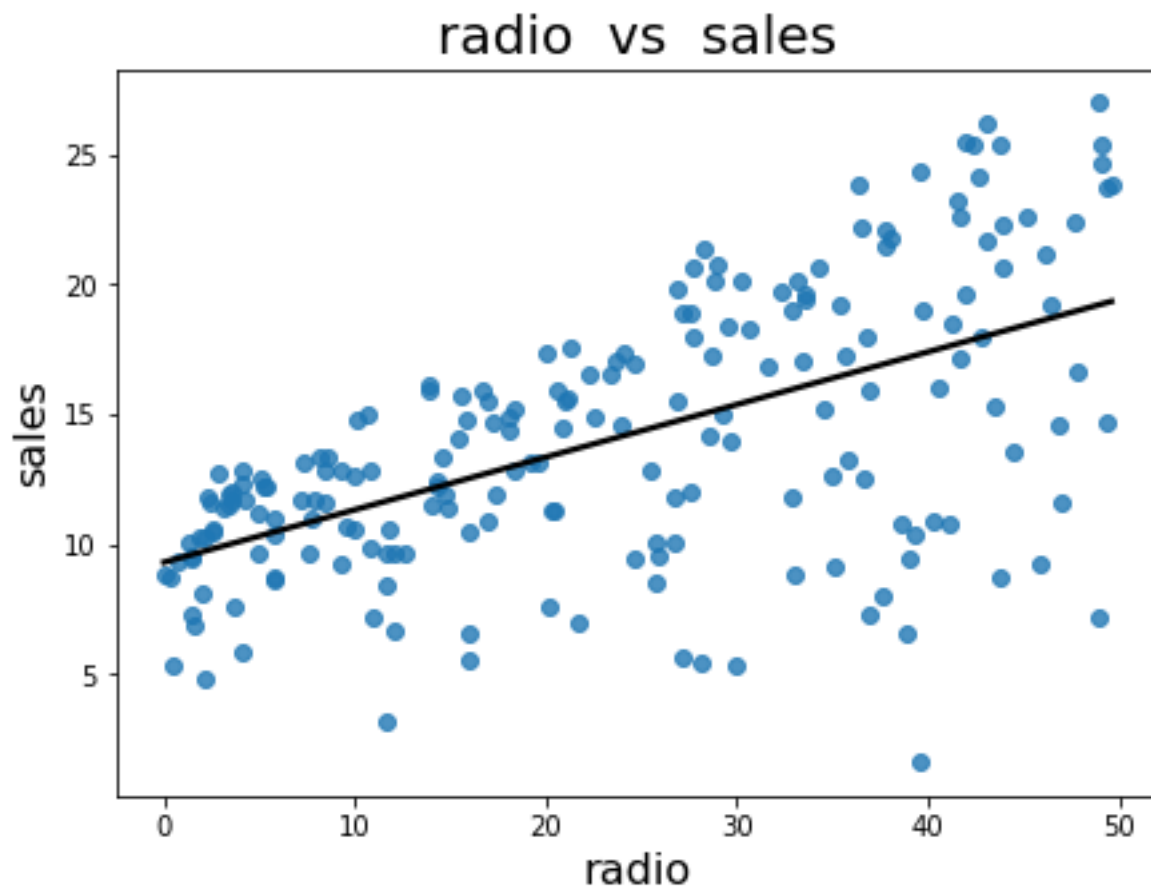
Dep. Variable:	TV_mean_imputed	R-squared (uncentered):	0.897
Model:	OLS	Adj. R-squared (uncentered):	0.896
Method:	Least Squares	F-statistic:	1733
Date:	Thu, 13 Oct 2022	Prob (F-statistic):	3.52e-100
Time:	23:39:20	Log-Likelihood:	-1083.8
No. Observations:	200	AIC:	2170.
Df Residuals:	199	BIC:	2173.
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P> t	[0.025	0.975]
sales	10.7750	0.259	41.633	0.000	10.265	11.285

Omnibus:	16.286	Durbin-Watson:	1.977
Prob(Omnibus):	0.000	Jarque-Bera (JB):	18.698
Skew:	0.746	Prob(JB):	8.71e-05
Kurtosis:	2.871	Cond. No.	1.00

Notes:

- [1] R^2 is computed without centering (uncentered) since the model does not contain a constant.
 [2] Standard Errors assume that the covariance matrix of the errors is correctly specified.



Variable Type: numeric

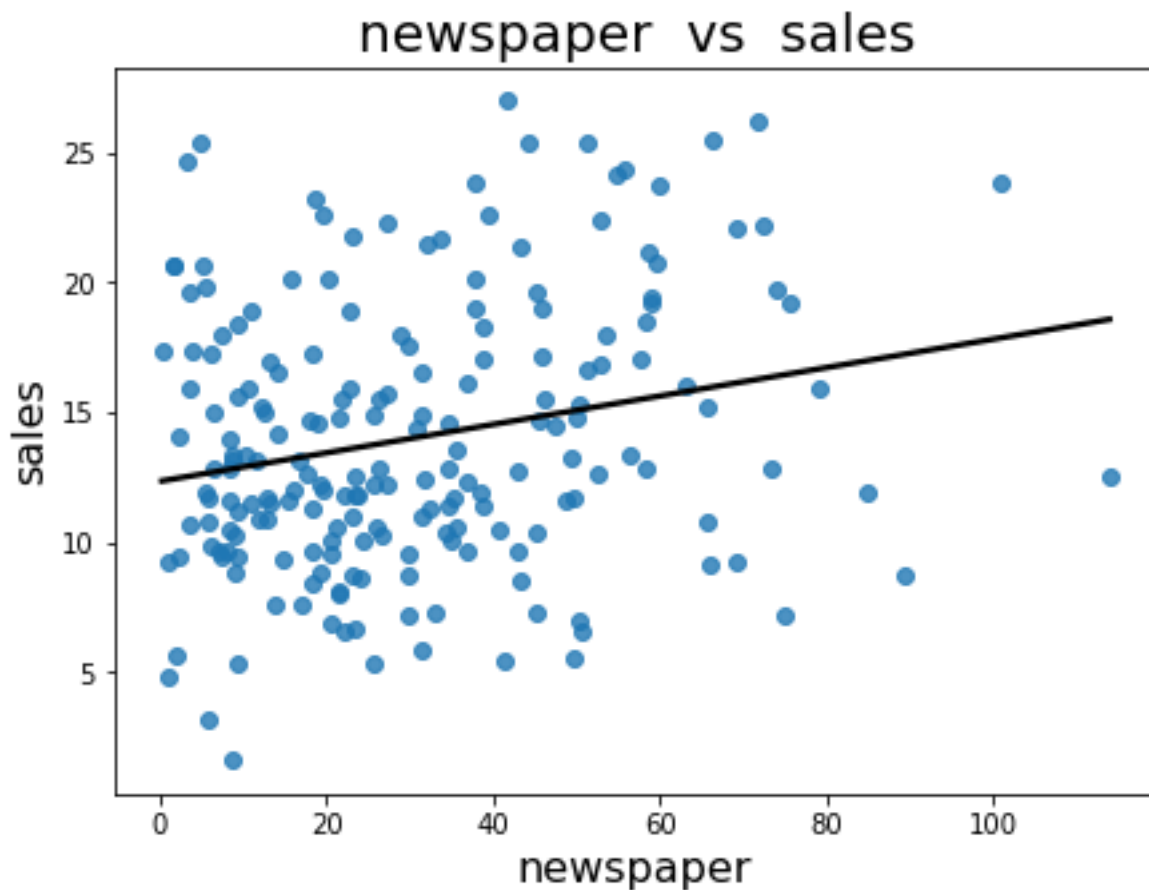
Engineering: mean_imputed

OLS Regression Results						
Dep. Variable:	radio_mean_imputed	R-squared (uncentered):	0.807			
Model:	OLS	Adj. R-squared (uncentered):	0.806			
Method:	Least Squares	F-statistic:	834.0			
Date:	Thu, 13 Oct 2022	Prob (F-statistic):	4.27e-73			
Time:	23:39:20	Log-Likelihood:	-782.50			
No. Observations:	200	AIC:	1567.			
Df Residuals:	199	BIC:	1570.			
Df Model:	1					
Covariance Type:	nonrobust					
	coef	std err	t	P> t	[0.025	0.975]
sales	1.6567	0.057	28.879	0.000	1.544	1.770
Omnibus:	16.257	Durbin-Watson:	1.980			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	18.449			
Skew:	0.744	Prob(JB):	9.86e-05			
Kurtosis:	3.016	Cond. No.	1.00			

Notes:

[1] R^2 is computed without centering (uncentered) since the model does not contain a constant.

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



Variable Type: numeric

Engineering: mean_imputed

OLS Regression Results						
Dep. Variable:	newspaper_mean_imputed		R-squared (uncentered):		0.656	
Model:	OLS		Adj. R-squared (uncentered):		0.655	
Method:	Least Squares		F-statistic:		379.9	
Date:	Thu, 13 Oct 2022		Prob (F-statistic):		4.98e-48	
Time:	23:39:21		Log-Likelihood:		-901.81	
No. Observations:	200		AIC:		1806.	
Df Residuals:	199		BIC:		1809.	
Df Model:	1					
Covariance Type:	nonrobust					
	coef	std err	t	P> t	[0.025	0.975]
sales	2.0305	0.104	19.492	0.000	1.825	2.236
Omnibus:	18.985	Durbin-Watson:	1.891			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	23.680			
Skew:	0.652	Prob(JB):	7.21e-06			
Kurtosis:	4.068	Cond. No.	1.00			

Notes:

[1] R^2 is computed without centering (uncentered) since the model does not contain a constant.

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