1/15/25, 10:56 PM

# **Data Analysis Dashboard**

## **Real Estate Data Correlation**

Calling st.pyplot() without providing a figure argument has been deprecated and will be removed in a later version as it requires the use of Matplotlib's global figure object, which is not thread-safe.

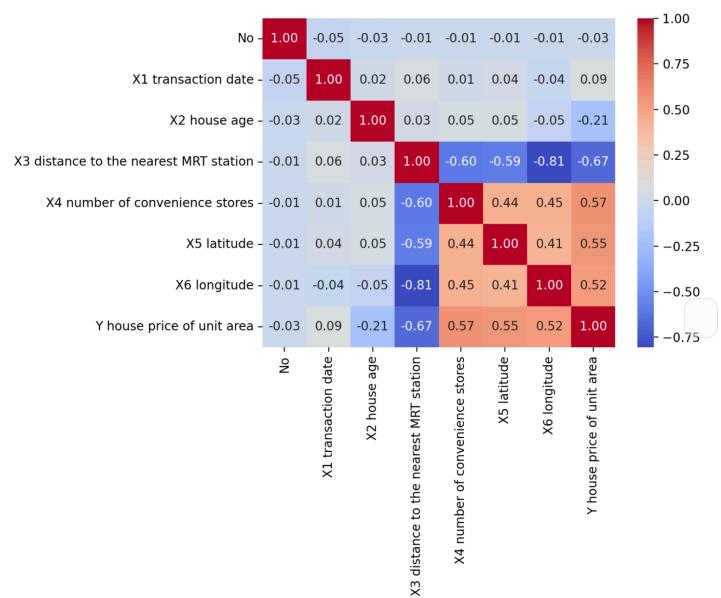
To future-proof this code, you should pass in a figure as shown below:



object Object],[object Object],[object Object],[object Object],[object Object]

If you have a specific use case that requires this functionality, please let us know via issue on Github.

localhost:8503



## **Red Wine Quality Data Correlation**

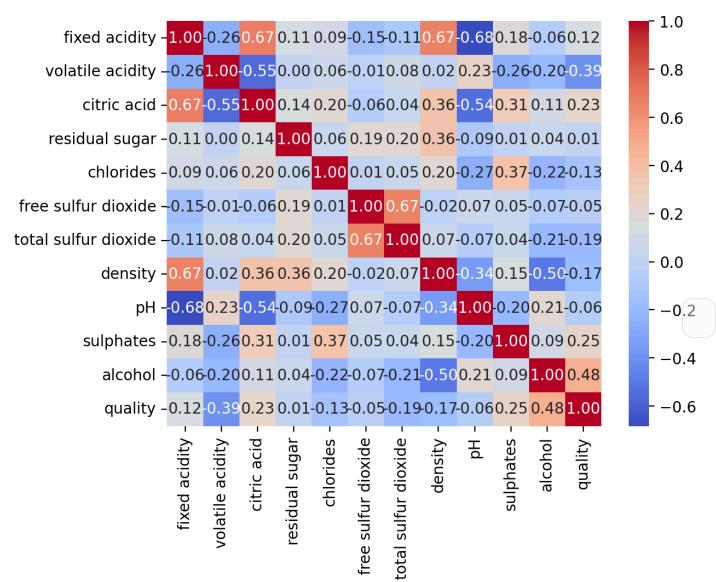
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```
[object Object],[object Object],[object Object],[object Object],[object Object
```

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## White Wine Quality Data Correlation

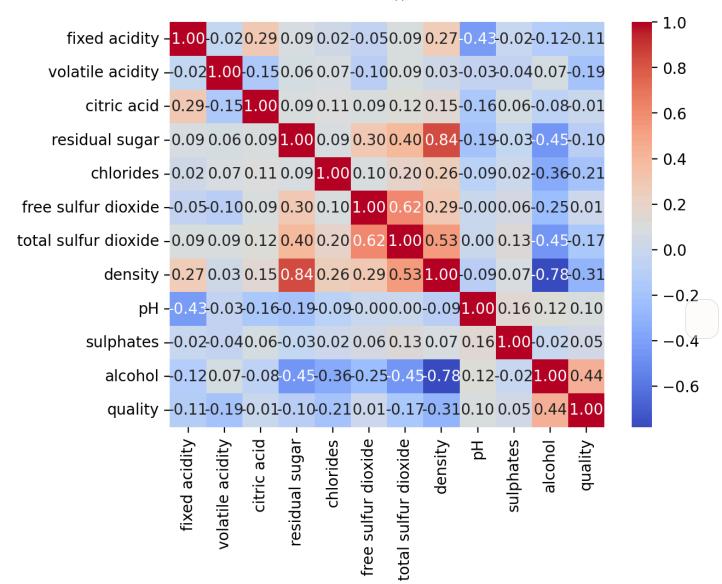
Calling st.pyplot() without providing a figure argument has been deprecated and will be removed in a later version as it requires the use of Matplotlib's global figure object, which is not thread-safe.

To future-proof this code, you should pass in a figure as shown below:

```
[object Object],[object Object],[object Object],[object Object],[object Object]
```

If you have a specific use case that requires this functionality, please let us know via issue on Github.

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## **Linear Regression for Real Estate**

Calling st.pyplot() without providing a figure argument has been deprecated and will be removed in a later version as it requires the use of Matplotlib's global figure object, which is not thread-safe.

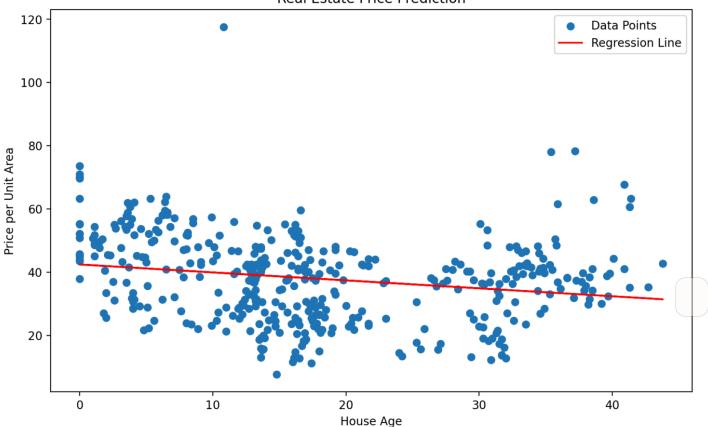
To future-proof this code, you should pass in a figure as shown below:

```
[object Object],[object Object],[object Object],[object Object]
```

If you have a specific use case that requires this functionality, please let us know via <u>issue on Github</u>.

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# Multiple Regression for Red Wine Quality

## **Red Wine Quality Regression Summary**

ılts				
:========	======	========	=======	========
quality	/ R-sq	uared:		0.361
OL:	S Adj.	R-squared:		0.356
Least Squares	s F-st	atistic:		81.35
Wed, 15 Jan 2025	5 Prob	(F-statisti	c):	1.79e-145
22:53:37	7 Log-	Likelihood:		-1569.1
1599	AIC:			3162.
1587	7 BIC:			3227.
13	L			
nonrobust	t			
=======================================	======	=======	=======	=========
coef st	td err	t	P> t	[0.025
21.9652	21.195	1.036	0.300	-19.607
0.0250	0.026	0.963	0.336	-0.026
	0LS Least Squares Wed, 15 Jan 2025 22:53:37 1599 1587 1500 nonrobust coef st	quality R-sq OLS Adj. Least Squares F-st Wed, 15 Jan 2025 Prob 22:53:37 Log- 1599 AIC: 1587 BIC: 11 nonrobust coef std err	quality R-squared: OLS Adj. R-squared: Least Squares F-statistic: Wed, 15 Jan 2025 Prob (F-statisti 22:53:37 Log-Likelihood: 1599 AIC: 1587 BIC: 11 nonrobust  coef std err t	quality R-squared:

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volatile acidity	-1.0836	0.121	-8.948	0.000	-1.321
citric acid	-0.1826	0.147	-1.240	0.215	-0.471
residual sugar	0.0163	0.015	1.089	0.276	-0.013
chlorides	-1.8742	0.419	-4.470	0.000	-2.697
free sulfur dioxide	0.0044	0.002	2.009	0.045	0.000
total sulfur dioxide	-0.0033	0.001	-4.480	0.000	-0.005
density	-17.8812	21.633	-0.827	0.409	-60.314
рН	-0.4137	0.192	-2.159	0.031	-0.789
sulphates	0.9163	0.114	8.014	0.000	0.692
alcohol	0.2762	0.026	10.429	0.000	0.224
=======================================	========	=======	========	========	========
Omnibus:	27.	.376 Durb	in-Watson:		1.757
<pre>Prob(Omnibus):</pre>	0.	.000 Jarqı	ue-Bera (JB)	•	40.965
Skew:	-0.	168 Prob	(JB):		1.27e-09
Kurtosis:	3.	.708 Cond	. No.		1.13e+05

\_\_\_\_\_

#### Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly s [2] The condition number is large, 1.13e+05. This might indicate that there are strong multicollinearity or other numerical problems.

### **Red Wine Quality Predictions**

Calling st.pyplot() without providing a figure argument has been deprecated and will be removed in a later version as it requires the use of Matplotlib's global figure object, which is not thread-safe.

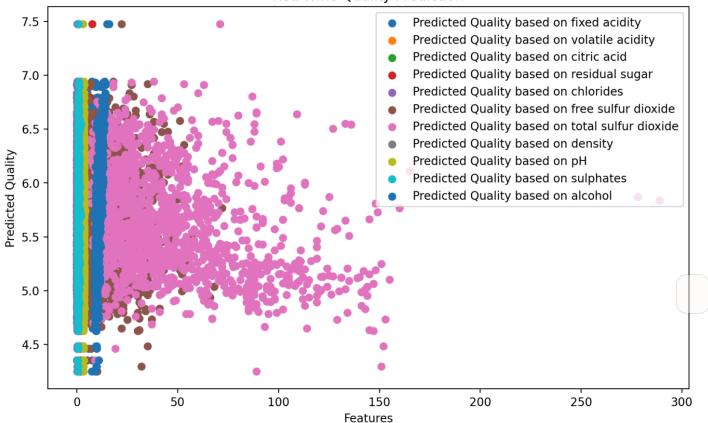
To future-proof this code, you should pass in a figure as shown below:

[object Object],[object Object],[object Object],[object Object],[object Object]

If you have a specific use case that requires this functionality, please let us know via <u>issue on Github</u>.

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#### **Red Wine Quality Prediction**



## Multiple Regression for White Wine Quality

## **White Wine Quality Regression Summary**

OLS Regression Resu	ılts						
=======================================		=====	=====	=========	=======	========	
Dep. Variable:	qual	ity	R-sq	uared:		0.282	
Model:	1	0LS	Adj.	R-squared:		0.280	
Method:	Least Squa	res	F-st	atistic:		174.3	
Date:	Wed, 15 Jan 2	025	Prob	(F-statisti	c):	0.00	
Time:	22:53	:40	Log-	Likelihood:		-5543.7	
No. Observations:	4	898	AIC:			1.111e+04	
Df Residuals:	4	886	BIC:			1.119e+04	
Df Model:		11					
Covariance Type:	nonrob	ust					
=======================================	coef	===== std	err	t	====== P> +	[0.025	==:
const	150.1928	18.	804	7.987	0.000	113.328	
fixed acidity	0.0655	0.	021	3.139	0.002	0.025	

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volatile acidity	-1.8632	0.114	-16.373	0.000	-2.086	
citric acid	0.0221	0.096	0.231	0.818	-0.166	
residual sugar	0.0815	0.008	10.825	0.000	0.067	
chlorides	-0.2473	0.547	-0.452	0.651	-1.319	
free sulfur dioxide	0.0037	0.001	4.422	0.000	0.002	
total sulfur dioxide	-0.0003	0.000	-0.756	0.450	-0.001	
density	-150.2842	19.075	-7.879	0.000	-187.679	-1
рН	0.6863	0.105	6.513	0.000	0.480	
sulphates	0.6315	0.100	6.291	0.000	0.435	
alcohol	0.1935	0.024	7.988	0.000	0.146	
=======================================	========	:======	========	=======	========	
Omnibus:	114.	161 Dur	bin-Watson:		1.621	
<pre>Prob(Omnibus):</pre>	0.	000 Jar	que-Bera (JB)	:	251.637	
Skew:	0.	073 Pro	b(JB):		2.28e-55	
Kurtosis:	4.	101 Con	d. No.		3.74e+05	
=======================================	=========	:=======	========	=======	========	

#### Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly s [2] The condition number is large, 3.74e+05. This might indicate that there are strong multicollinearity or other numerical problems.

### **White Wine Quality Predictions**

Calling st.pyplot() without providing a figure argument has been deprecated and will be removed in a later version as it requires the use of Matplotlib's global figure object, which is not thread-safe.

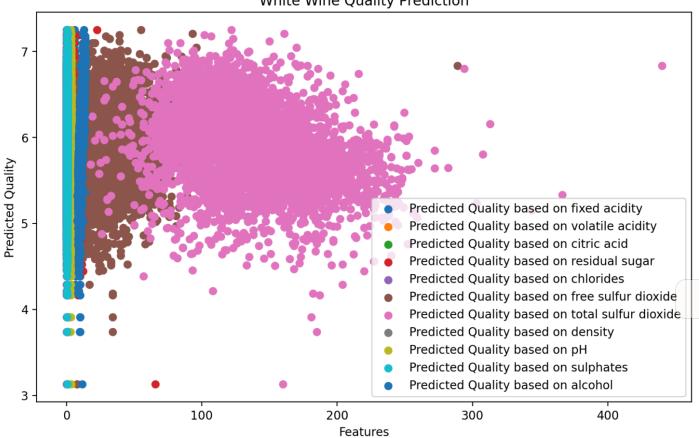
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#### White Wine Quality Prediction



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