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```
0
```

BokehJS 2.4.2 successfully loaded.

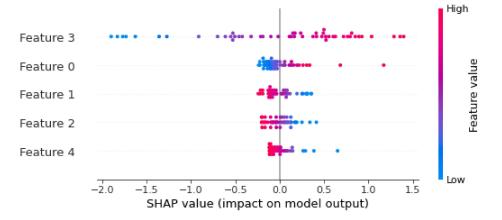
"\noutput_figure = widgets.Output()\n \n# Create the default figure\nfig = [] # Storing the figure in a singular list is a bit of a \n # hack. We need it to properly mutate the current\n # figure in our callbacks.\n#p = create_figure(\n# iris['feature_names'][0],\n# ir is['feature_names'][1],\n# data)\n#fig.append(p)\nwith output_figure:\n interact(derive_xnames,y=y)\n #interact(return_model_vars,x=x_,y=y,autoremove=autoremove)\n #show(fig)\n \napp_layout = widgets.Layout(display='flex',\n flex_flow='row nowrap',\n align_items='center',\n width='100%',\n margin='5px 5px 5px')\n \n# The final app is just a box\napp=widgets.Box([y, output_figure], layout=app_layout)\n \n# Display the app\ndisplay(app)\n"

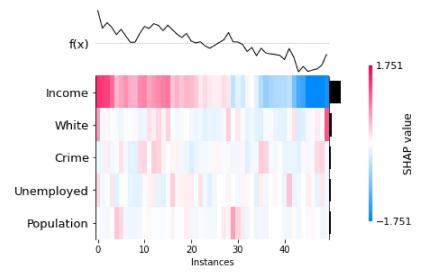


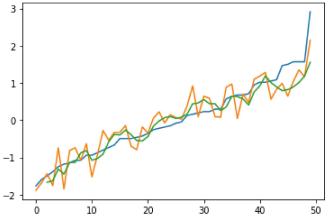
divide by zero encountered in true_divide invalid value encountered in matmul

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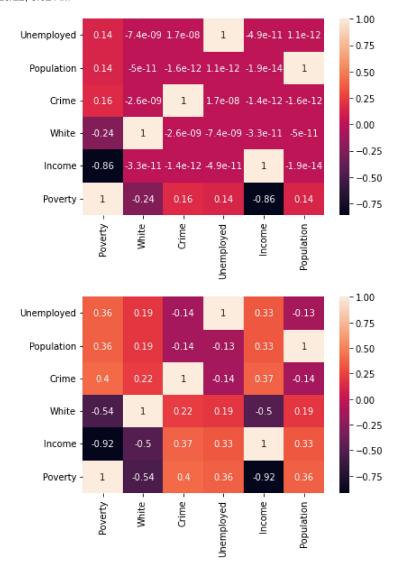


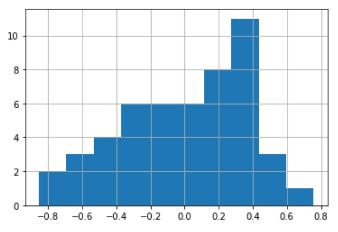






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mape: 68.26355090031673

Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

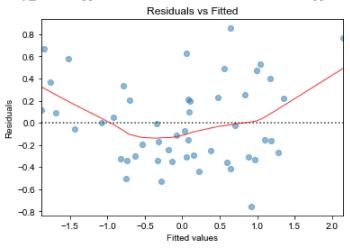
marker is redundantly defined by the 'marker' keyword argument and the fmt string "bo" (-> marker='o'). The keyword argument will take precedence.

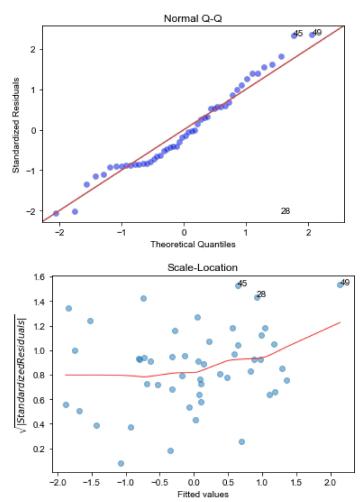
color is redundantly defined by the 'color' keyword argument and the fmt string "bo" (-> color='b'). The keyword argument will take precedence. Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

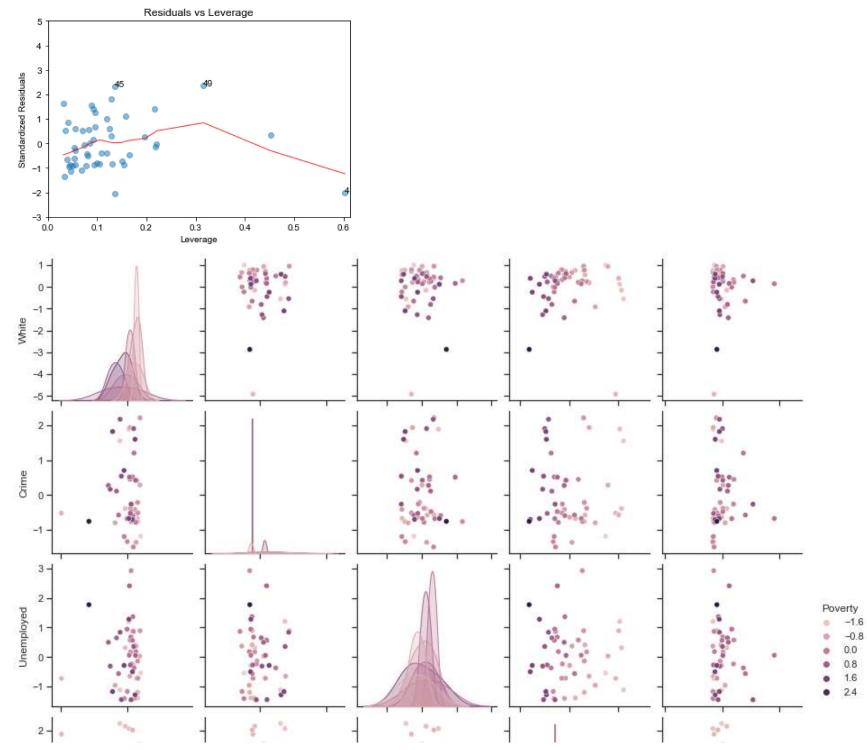
Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

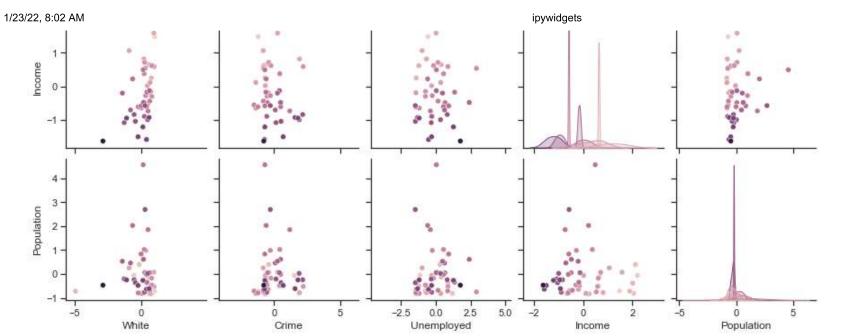
Diagnostic Tests of Regression

:{"Non_Linearity_Test": [["F value", NaN], ["p value", NaN]], "Hetroskedasticity_Test": [["Lagrange multiplier statistic", 2.6222863533137075], ["p-value", 0.7579762848669936], ["f-value", 0.4870669800836755], ["f p-value", 0.7840454143773542]], "Residual_Normality_Test": [["Jarque-Bera", 2.3380516101788262], ["Chi^2 two-tail prob.", 0.31066944648567857], ["Skew", 0.4390957134530111], ["Kurtosis", 2.407509839242371]], "MultiCollnea rity_Test": [["condition no", 1.0000041860250353]], "Residual_AutoCorrelation_Test": [["p value", 1.560083885264049]]}









[<class 'statsmodels.iolib.summary.Summary'>

OLS Regression Results

Dep. Variable:	Poverty	R-squared (uncentered):	0.862
Model:	OLS	Adj. R-squared (uncentered):	0.847
Method:	Least Squares	F-statistic:	56.39
Date:	Sun, 23 Jan 2022	Prob (F-statistic):	2.94e-18
Time:	07:55:45	Log-Likelihood:	-21.368
No. Observations:	50	AIC:	52.74
Df Residuals:	45	BIC:	62.30
Df Model:	5		

Covariance Type: nonrobust

=========	.========			.========		.========
	coef	std err	t	P> t	[0.025	0.975]
White Crime Unemployed Income Population	-0.2383 0.1614 0.1416 -0.8597 0.1427	0.055 0.055 0.055 0.055 0.055	-4.308 2.919 2.560 -15.545 2.581	0.000 0.005 0.014 0.000 0.013	-0.350 0.050 0.030 -0.971 0.031	-0.127 0.273 0.253 -0.748 0.254
Omnibus: Prob(Omnibus Skew: Kurtosis:	5):	0.		. ,	:	1.560 2.338 0.311 1.00

Notes:

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[1] R² 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.
"""]

<function __main__.return_model_subset(x, y, autoremove)>

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