share_market

May 25, 2022

[ ]:
```
import numpy as np
import pandas as pd
import plotly.graph_objects as go
data = pd.read_csv("C:/Users/91861/Downloads/ADANIPOWER.NS.csv")
print(data.head())
```

```
         Date       Open        High        Low      Close  Adj Close  \
0  2021-05-10  98.000000   99.800003  97.050003  98.500000  98.500000
1  2021-05-11  97.949997  101.000000  97.349998  99.000000  99.000000
2  2021-05-12  99.949997  100.800003  97.000000  97.449997  97.449997
3  2021-05-14  98.400002   98.400002  94.000000  95.800003  95.800003
4  2021-05-17  96.300003   98.400002  96.250000  97.050003  97.050003

     Volume
0  13916610
1  13877015
2   9154563
3  11732901
4   7355491
```

[ ]:
```
figure = go.Figure(data=[go.Candlestick(x=data["Date"],
                                        open=data["Open"], high=data["High"],
                                        low=data["Low"], close=data["Close"])])
figure.update_layout(title = "ADANI PORT Stock Price Analysis",␣
 ↪xaxis_rangeslider_visible=False)
figure.show()
```

[ ]:
```
from autots import AutoTS
model = AutoTS(forecast_length=5, frequency='infer', ensemble='simple')
model = model.fit(data, date_col='Date', value_col='Close', id_col=None)
prediction = model.predict()
forecast = prediction.forecast
print(forecast)
```

```
Inferred frequency is: None
Frequency is 'None'! Input frequency not recognized.
Model Number: 1 with model AverageValueNaive in generation 0 of 10
Model Number: 2 with model AverageValueNaive in generation 0 of 10
```

```
Model Number: 3 with model AverageValueNaive in generation 0 of 10
Model Number: 4 with model DatepartRegression in generation 0 of 10
Model Number: 5 with model DatepartRegression in generation 0 of 10
Model Number: 6 with model DatepartRegression in generation 0 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


Model Number: 7 with model DatepartRegression in generation 0 of 10
Template Eval Error: ImportError('Tensorflow not available, install with pip
install tensorflow.') in model 7: DatepartRegression
Model Number: 8 with model ETS in generation 0 of 10
Model Number: 9 with model ETS in generation 0 of 10
Model Number: 10 with model GLM in generation 0 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 10: GLM
Model Number: 11 with model GLM in generation 0 of 10
Model Number: 12 with model GLS in generation 0 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\neural_network\_multilayer_perceptron.py:549:
ConvergenceWarning:

lbfgs failed to converge (status=1):
STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.

Increase the number of iterations (max_iter) or scale the data as shown in:
    https://scikit-learn.org/stable/modules/preprocessing.html


Model Number: 13 with model GLS in generation 0 of 10
Model Number: 14 with model GluonTS in generation 0 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 14: GluonTS
Model Number: 15 with model GluonTS in generation 0 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 15: GluonTS
Model Number: 16 with model GluonTS in generation 0 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 16: GluonTS
Model Number: 17 with model GluonTS in generation 0 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 17: GluonTS
Model Number: 18 with model GluonTS in generation 0 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 18: GluonTS
```

```
Model Number: 19 with model GluonTS in generation 0 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 19: GluonTS
Model Number: 20 with model LastValueNaive in generation 0 of 10
Model Number: 21 with model LastValueNaive in generation 0 of 10
Model Number: 22 with model LastValueNaive in generation 0 of 10
Model Number: 23 with model LastValueNaive in generation 0 of 10
Model Number: 24 with model SeasonalNaive in generation 0 of 10
Model Number: 25 with model SeasonalNaive in generation 0 of 10
Model Number: 26 with model SeasonalNaive in generation 0 of 10
Model Number: 27 with model SeasonalNaive in generation 0 of 10
Model Number: 28 with model UnobservedComponents in generation 0 of 10
Model Number: 29 with model UnobservedComponents in generation 0 of 10
Model Number: 30 with model UnobservedComponents in generation 0 of 10
Model Number: 31 with model VAR in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 31:
VAR
Model Number: 32 with model VAR in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 32:
VAR
Model Number: 33 with model VAR in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 33:
VAR
Model Number: 34 with model VECM in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 34:
VECM
Model Number: 35 with model VECM in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 35:
VECM
Model Number: 36 with model VECM in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 36:
VECM
Model Number: 37 with model VECM in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 37:
VECM
Model Number: 38 with model WindowRegression in generation 0 of 10
Model Number: 39 with model ZeroesNaive in generation 0 of 10
Model Number: 40 with model ZeroesNaive in generation 0 of 10
Model Number: 41 with model LastValueNaive in generation 0 of 10
Model Number: 42 with model AverageValueNaive in generation 0 of 10
Model Number: 43 with model GLS in generation 0 of 10
Model Number: 44 with model SeasonalNaive in generation 0 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\neural_network\_multilayer_perceptron.py:549:
ConvergenceWarning:

lbfgs failed to converge (status=1):
```

```
STOP: TOTAL NO. of ITERATIONS REACHED LIMIT.

Increase the number of iterations (max_iter) or scale the data as shown in:
    https://scikit-learn.org/stable/modules/preprocessing.html


Model Number: 45 with model GLM in generation 0 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 45: GLM
Model Number: 46 with model ETS in generation 0 of 10
Model Number: 47 with model FBProphet in generation 0 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
47: FBProphet
Model Number: 48 with model GluonTS in generation 0 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 48: GluonTS
Model Number: 49 with model UnobservedComponents in generation 0 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 49: UnobservedComponents
Model Number: 50 with model VAR in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 50:
VAR
Model Number: 51 with model VECM in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 51:
VECM
Model Number: 52 with model WindowRegression in generation 0 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 52: WindowRegression
Model Number: 53 with model DatepartRegression in generation 0 of 10
Model Number: 54 with model MultivariateRegression in generation 0 of 10
Model Number: 55 with model UnivariateMotif in generation 0 of 10
Model Number: 56 with model MultivariateMotif in generation 0 of 10
Model Number: 57 with model SectionalMotif in generation 0 of 10
Model Number: 58 with model NVAR in generation 0 of 10
Model Number: 59 with model Theta in generation 0 of 10
Model Number: 60 with model ARDL in generation 0 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 60: ARDL
Model Number: 61 with model VAR in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 61:
VAR
Model Number: 62 with model VECM in generation 0 of 10
Template Eval Error: Exception('Transformer StandardScaler failed on fit') in
model 62: VECM
Model Number: 63 with model SeasonalNaive in generation 0 of 10
Model Number: 64 with model GluonTS in generation 0 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
```

```
version is incompatible with AutoTS.') in model 64: GluonTS
Model Number: 65 with model UnivariateMotif in generation 0 of 10
Model Number: 66 with model WindowRegression in generation 0 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\utils\validation.py:1688: FutureWarning:

Feature names only support names that are all strings. Got feature names with
dtypes: ['Timestamp', 'str']. An error will be raised in 1.2.

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\utils\extmath.py:985: RuntimeWarning:

invalid value encountered in true_divide

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\utils\extmath.py:990: RuntimeWarning:

invalid value encountered in true_divide

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\utils\extmath.py:1020: RuntimeWarning:

invalid value encountered in true_divide

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\utils\validation.py:1688: FutureWarning:

Feature names only support names that are all strings. Got feature names with
dtypes: ['Timestamp', 'str']. An error will be raised in 1.2.


Model Number: 67 with model GLM in generation 0 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 67: GLM
Model Number: 68 with model LastValueNaive in generation 0 of 10
Model Number: 69 with model SectionalMotif in generation 0 of 10
Model Number: 70 with model VECM in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 70:
VECM
Model Number: 71 with model VECM in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 71:
VECM
Model Number: 72 with model MultivariateMotif in generation 0 of 10
Model Number: 73 with model GLS in generation 0 of 10
Model Number: 74 with model MultivariateMotif in generation 0 of 10
Model Number: 75 with model DatepartRegression in generation 0 of 10
Template Eval Error: ImportError('Tensorflow not available, install with pip
```

```
install tensorflow.') in model 75: DatepartRegression
Model Number: 76 with model VECM in generation 0 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 76: VECM
Model Number: 77 with model MultivariateMotif in generation 0 of 10
Model Number: 78 with model LastValueNaive in generation 0 of 10
Model Number: 79 with model GLS in generation 0 of 10
Model Number: 80 with model WindowRegression in generation 0 of 10
Template Eval Error: ModuleNotFoundError("No module named 'lightgbm'") in model
80: WindowRegression
Model Number: 81 with model AverageValueNaive in generation 0 of 10
Model Number: 82 with model GluonTS in generation 0 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 82: GluonTS
Model Number: 83 with model ETS in generation 0 of 10
Model Number: 84 with model UnobservedComponents in generation 0 of 10
Model Number: 85 with model LastValueNaive in generation 0 of 10
Model Number: 86 with model WindowRegression in generation 0 of 10
Model Number: 87 with model SectionalMotif in generation 0 of 10
Model Number: 88 with model LastValueNaive in generation 0 of 10
Model Number: 89 with model SectionalMotif in generation 0 of 10
Model Number: 90 with model WindowRegression in generation 0 of 10
Model Number: 91 with model VECM in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 91:
VECM
Model Number: 92 with model GLS in generation 0 of 10
Model Number: 93 with model ZeroesNaive in generation 0 of 10
Model Number: 94 with model UnobservedComponents in generation 0 of 10
Model Number: 95 with model UnivariateMotif in generation 0 of 10
Model Number: 96 with model WindowRegression in generation 0 of 10
Model Number: 97 with model GluonTS in generation 0 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 97: GluonTS
Model Number: 98 with model WindowRegression in generation 0 of 10
Template Eval Error: ModuleNotFoundError("No module named 'lightgbm'") in model
98: WindowRegression
Model Number: 99 with model FBProphet in generation 0 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
99: FBProphet
Model Number: 100 with model GLS in generation 0 of 10
Model Number: 101 with model UnobservedComponents in generation 0 of 10
Model Number: 102 with model GluonTS in generation 0 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 102: GluonTS
Model Number: 103 with model SeasonalNaive in generation 0 of 10
Model Number: 104 with model UnobservedComponents in generation 0 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 104: UnobservedComponents
```

```
Model Number: 105 with model NVAR in generation 0 of 10
Model Number: 106 with model FBProphet in generation 0 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 106: FBProphet
Model Number: 107 with model Theta in generation 0 of 10
Model Number: 108 with model UnobservedComponents in generation 0 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 108: UnobservedComponents
Model Number: 109 with model VECM in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 109:
VECM
Model Number: 110 with model MultivariateRegression in generation 0 of 10
Template Eval Error: ModuleNotFoundError("No module named 'lightgbm'") in model
110: MultivariateRegression
Model Number: 111 with model MultivariateMotif in generation 0 of 10
Model Number: 112 with model DatepartRegression in generation 0 of 10
Template Eval Error: ImportError('Tensorflow not available, install with pip
install tensorflow.') in model 112: DatepartRegression
Model Number: 113 with model ZeroesNaive in generation 0 of 10
Model Number: 114 with model SeasonalNaive in generation 0 of 10
Model Number: 115 with model GluonTS in generation 0 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 115: GluonTS
Model Number: 116 with model SeasonalNaive in generation 0 of 10
Model Number: 117 with model GLS in generation 0 of 10
Model Number: 118 with model AverageValueNaive in generation 0 of 10
Model Number: 119 with model SeasonalNaive in generation 0 of 10
Model Number: 120 with model NVAR in generation 0 of 10
Model Number: 121 with model VECM in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 121:
VECM
Model Number: 122 with model MultivariateMotif in generation 0 of 10
Model Number: 123 with model LastValueNaive in generation 0 of 10
Model Number: 124 with model ARDL in generation 0 of 10
Template Eval Error: Exception('Transformer Detrend failed on fit') in model
124: ARDL
Model Number: 125 with model MultivariateMotif in generation 0 of 10
Model Number: 126 with model FBProphet in generation 0 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
126: FBProphet
Model Number: 127 with model VAR in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 127:
VAR
Model Number: 128 with model GluonTS in generation 0 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 128: GluonTS
Model Number: 129 with model MultivariateMotif in generation 0 of 10
Model Number: 130 with model Theta in generation 0 of 10
```

```
Model Number: 131 with model VAR in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 131:
VAR
Model Number: 132 with model NVAR in generation 0 of 10
Model Number: 133 with model Theta in generation 0 of 10
Model Number: 134 with model DatepartRegression in generation 0 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 134: DatepartRegression
Model Number: 135 with model Theta in generation 0 of 10
Model Number: 136 with model MultivariateRegression in generation 0 of 10
Model Number: 137 with model LastValueNaive in generation 0 of 10
Model Number: 138 with model GLM in generation 0 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 138: GLM
Model Number: 139 with model UnivariateMotif in generation 0 of 10
Model Number: 140 with model VAR in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 140:
VAR
Model Number: 141 with model ETS in generation 0 of 10
Model Number: 142 with model VECM in generation 0 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 142:
VECM
Model Number: 143 with model SeasonalNaive in generation 0 of 10
Model Number: 144 with model GLM in generation 0 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 144: GLM
New Generation: 1 of 10
Model Number: 145 with model GLS in generation 1 of 10
Model Number: 146 with model GLS in generation 1 of 10
Model Number: 147 with model GLS in generation 1 of 10
Model Number: 148 with model UnobservedComponents in generation 1 of 10
Model Number: 149 with model UnobservedComponents in generation 1 of 10
Model Number: 150 with model UnobservedComponents in generation 1 of 10
Model Number: 151 with model WindowRegression in generation 1 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 151: WindowRegression
Model Number: 152 with model WindowRegression in generation 1 of 10
Model Number: 153 with model WindowRegression in generation 1 of 10
Model Number: 154 with model LastValueNaive in generation 1 of 10
Model Number: 155 with model LastValueNaive in generation 1 of 10
Model Number: 156 with model LastValueNaive in generation 1 of 10
Model Number: 157 with model SectionalMotif in generation 1 of 10
Model Number: 158 with model SectionalMotif in generation 1 of 10
Model Number: 159 with model SectionalMotif in generation 1 of 10
Model Number: 160 with model SectionalMotif in generation 1 of 10
Model Number: 161 with model SeasonalNaive in generation 1 of 10
```

```
Model Number: 162 with model SeasonalNaive in generation 1 of 10
Model Number: 163 with model SeasonalNaive in generation 1 of 10
Model Number: 164 with model SeasonalNaive in generation 1 of 10
Model Number: 165 with model ZeroesNaive in generation 1 of 10
Model Number: 166 with model ZeroesNaive in generation 1 of 10
Template Eval Error: Exception('Transformer MinMaxScaler failed on fit') in
model 166: ZeroesNaive
Model Number: 167 with model ZeroesNaive in generation 1 of 10
Model Number: 168 with model ETS in generation 1 of 10
Model Number: 169 with model ETS in generation 1 of 10
Model Number: 170 with model ETS in generation 1 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\utils\validation.py:1688: FutureWarning:

Feature names only support names that are all strings. Got feature names with
dtypes: ['Timestamp', 'str']. An error will be raised in 1.2.

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\preprocessing\_data.py:461: RuntimeWarning:

All-NaN slice encountered

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\preprocessing\_data.py:462: RuntimeWarning:

All-NaN slice encountered

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\utils\validation.py:1688: FutureWarning:

Feature names only support names that are all strings. Got feature names with
dtypes: ['Timestamp', 'str']. An error will be raised in 1.2.


Model Number: 171 with model ETS in generation 1 of 10
ETS error ValueError('Can only dampen the trend component')
ETS failed on Close with ValueError('Can only dampen the trend component')
Model Number: 172 with model MultivariateMotif in generation 1 of 10
Model Number: 173 with model MultivariateMotif in generation 1 of 10
Model Number: 174 with model MultivariateMotif in generation 1 of 10
Model Number: 175 with model MultivariateMotif in generation 1 of 10
Model Number: 176 with model NVAR in generation 1 of 10
Model Number: 177 with model NVAR in generation 1 of 10
Model Number: 178 with model NVAR in generation 1 of 10
Model Number: 179 with model NVAR in generation 1 of 10
Model Number: 180 with model Theta in generation 1 of 10
Model Number: 181 with model Theta in generation 1 of 10
Model Number: 182 with model Theta in generation 1 of 10
```

```
Model Number: 183 with model Theta in generation 1 of 10
Model Number: 184 with model MultivariateRegression in generation 1 of 10
Model Number: 185 with model MultivariateRegression in generation 1 of 10
Model Number: 186 with model MultivariateRegression in generation 1 of 10
Model Number: 187 with model MultivariateRegression in generation 1 of 10
Model Number: 188 with model AverageValueNaive in generation 1 of 10
Model Number: 189 with model AverageValueNaive in generation 1 of 10
Model Number: 190 with model AverageValueNaive in generation 1 of 10
Model Number: 191 with model UnivariateMotif in generation 1 of 10
Model Number: 192 with model UnivariateMotif in generation 1 of 10
Template Eval Error: Exception('Transformer HPFilter failed on fit') in model
192: UnivariateMotif
Model Number: 193 with model UnivariateMotif in generation 1 of 10
Model Number: 194 with model UnivariateMotif in generation 1 of 10
Model Number: 195 with model DatepartRegression in generation 1 of 10
Model Number: 196 with model DatepartRegression in generation 1 of 10
Model Number: 197 with model DatepartRegression in generation 1 of 10

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 300 out of 300 | elapsed:    0.1s finished

Model Number: 198 with model GLM in generation 1 of 10
Model Number: 199 with model GLM in generation 1 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 199: GLM
Model Number: 200 with model GLM in generation 1 of 10
Model Number: 201 with model GLM in generation 1 of 10

[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 300 out of 300 | elapsed:    0.0s finished

Model Number: 202 with model GluonTS in generation 1 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 202: GluonTS
Model Number: 203 with model GluonTS in generation 1 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 203: GluonTS
Model Number: 204 with model GluonTS in generation 1 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 204: GluonTS
Model Number: 205 with model GluonTS in generation 1 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 205: GluonTS
```

```
Model Number: 206 with model VAR in generation 1 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 206:
VAR
Model Number: 207 with model VAR in generation 1 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 207:
VAR
Model Number: 208 with model VAR in generation 1 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 208:
VAR
Model Number: 209 with model VAR in generation 1 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 209:
VAR
Model Number: 210 with model VECM in generation 1 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 210:
VECM
Model Number: 211 with model VECM in generation 1 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 211: VECM
Model Number: 212 with model VECM in generation 1 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 212:
VECM
Model Number: 213 with model VECM in generation 1 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 213: VECM
Model Number: 214 with model FBProphet in generation 1 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
214: FBProphet
Model Number: 215 with model FBProphet in generation 1 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
215: FBProphet
Model Number: 216 with model FBProphet in generation 1 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
216: FBProphet
Model Number: 217 with model FBProphet in generation 1 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
217: FBProphet
Model Number: 218 with model ARDL in generation 1 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 218: ARDL
Model Number: 219 with model ARDL in generation 1 of 10
Model Number: 220 with model ARDL in generation 1 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 220: ARDL
Model Number: 221 with model ARDL in generation 1 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 221: ARDL
New Generation: 2 of 10
Model Number: 222 with model LastValueNaive in generation 2 of 10
```

```
Model Number: 223 with model LastValueNaive in generation 2 of 10
Model Number: 224 with model LastValueNaive in generation 2 of 10
Model Number: 225 with model GLS in generation 2 of 10
Model Number: 226 with model GLS in generation 2 of 10
Model Number: 227 with model GLS in generation 2 of 10
Model Number: 228 with model UnobservedComponents in generation 2 of 10
Template Eval Error: Exception('Transformer QuantileTransformer failed on fit')
in model 228: UnobservedComponents
Model Number: 229 with model UnobservedComponents in generation 2 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\utils\validation.py:1688: FutureWarning:

Feature names only support names that are all strings. Got feature names with
dtypes: ['Timestamp', 'str']. An error will be raised in 1.2.

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\numpy\lib\nanfunctions.py:1560: RuntimeWarning:

All-NaN slice encountered

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\utils\validation.py:1688: FutureWarning:

Feature names only support names that are all strings. Got feature names with
dtypes: ['Timestamp', 'str']. An error will be raised in 1.2.


Template Eval Error: ValueError("'shape' elements cannot be negative") in model
229: UnobservedComponents
Model Number: 230 with model UnobservedComponents in generation 2 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 230: UnobservedComponents
Model Number: 231 with model WindowRegression in generation 2 of 10
Template Eval Error: ValueError('Model WindowRegression returned NaN for one or
more series. fail_on_forecast_nan=True') in model 231: WindowRegression
Model Number: 232 with model WindowRegression in generation 2 of 10
Model Number: 233 with model WindowRegression in generation 2 of 10
Template Eval Error: ValueError('Found array with 0 sample(s) (shape=(0, 0))
while a minimum of 1 is required.') in model 233: WindowRegression
Model Number: 234 with model ARDL in generation 2 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 234: ARDL
Model Number: 235 with model ARDL in generation 2 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 235: ARDL
Model Number: 236 with model ARDL in generation 2 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 236: ARDL
```

```
Model Number: 237 with model ARDL in generation 2 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\neighbors\_regression.py:470: UserWarning:

One or more samples have no neighbors within specified radius; predicting NaN.

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


Model Number: 238 with model AverageValueNaive in generation 2 of 10
Model Number: 239 with model AverageValueNaive in generation 2 of 10
Model Number: 240 with model AverageValueNaive in generation 2 of 10
Model Number: 241 with model MultivariateMotif in generation 2 of 10
Model Number: 242 with model MultivariateMotif in generation 2 of 10
Model Number: 243 with model MultivariateMotif in generation 2 of 10
Model Number: 244 with model MultivariateMotif in generation 2 of 10
Model Number: 245 with model NVAR in generation 2 of 10
Model Number: 246 with model NVAR in generation 2 of 10
Model Number: 247 with model NVAR in generation 2 of 10
Model Number: 248 with model NVAR in generation 2 of 10
Model Number: 249 with model SeasonalNaive in generation 2 of 10
Model Number: 250 with model SeasonalNaive in generation 2 of 10
Model Number: 251 with model SeasonalNaive in generation 2 of 10
Model Number: 252 with model SeasonalNaive in generation 2 of 10
Template Eval Error: ValueError('Model SeasonalNaive returned NaN for one or
more series. fail_on_forecast_nan=True') in model 252: SeasonalNaive
Model Number: 253 with model SectionalMotif in generation 2 of 10
Model Number: 254 with model SectionalMotif in generation 2 of 10
Model Number: 255 with model SectionalMotif in generation 2 of 10
Model Number: 256 with model SectionalMotif in generation 2 of 10
Model Number: 257 with model ZeroesNaive in generation 2 of 10
Model Number: 258 with model ZeroesNaive in generation 2 of 10
Model Number: 259 with model ZeroesNaive in generation 2 of 10
Model Number: 260 with model Theta in generation 2 of 10
Model Number: 261 with model Theta in generation 2 of 10
Model Number: 262 with model Theta in generation 2 of 10
Model Number: 263 with model Theta in generation 2 of 10
Model Number: 264 with model DatepartRegression in generation 2 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 264: DatepartRegression
Model Number: 265 with model DatepartRegression in generation 2 of 10
Model Number: 266 with model DatepartRegression in generation 2 of 10
Model Number: 267 with model MultivariateRegression in generation 2 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
```

```
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


Model Number: 268 with model MultivariateRegression in generation 2 of 10
Model Number: 269 with model MultivariateRegression in generation 2 of 10
Template Eval Error: ModuleNotFoundError("No module named 'lightgbm'") in model
269: MultivariateRegression
Model Number: 270 with model MultivariateRegression in generation 2 of 10
Template Eval Error: ModuleNotFoundError("No module named 'lightgbm'") in model
270: MultivariateRegression
Model Number: 271 with model ETS in generation 2 of 10
ETS error ValueError('Can only dampen the trend component')
ETS failed on Close with ValueError('Can only dampen the trend component')
Model Number: 272 with model ETS in generation 2 of 10
ETS error ValueError('Can only dampen the trend component')
ETS failed on Close with ValueError('Can only dampen the trend component')
Model Number: 273 with model ETS in generation 2 of 10
Model Number: 274 with model ETS in generation 2 of 10
ETS error ValueError('Can only dampen the trend component')
ETS failed on Close with ValueError('Can only dampen the trend component')
Model Number: 275 with model UnivariateMotif in generation 2 of 10
Model Number: 276 with model UnivariateMotif in generation 2 of 10
Model Number: 277 with model UnivariateMotif in generation 2 of 10
Model Number: 278 with model UnivariateMotif in generation 2 of 10
Model Number: 279 with model GLM in generation 2 of 10
Model Number: 280 with model GLM in generation 2 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 280: GLM
Model Number: 281 with model GLM in generation 2 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 281: GLM
Model Number: 282 with model GLM in generation 2 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 282: GLM
Model Number: 283 with model GluonTS in generation 2 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 283: GluonTS
Model Number: 284 with model GluonTS in generation 2 of 10
```

```
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 284: GluonTS
Model Number: 285 with model GluonTS in generation 2 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 285: GluonTS
Model Number: 286 with model GluonTS in generation 2 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 286: GluonTS
Model Number: 287 with model VAR in generation 2 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 287:
VAR
Model Number: 288 with model VAR in generation 2 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 288:
VAR
Model Number: 289 with model VAR in generation 2 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 289:
VAR
Model Number: 290 with model VAR in generation 2 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 290:
VAR
Model Number: 291 with model VECM in generation 2 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 291:
VECM
Model Number: 292 with model VECM in generation 2 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 292:
VECM
Model Number: 293 with model VECM in generation 2 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 293:
VECM
Model Number: 294 with model VECM in generation 2 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 294:
VECM
Model Number: 295 with model FBProphet in generation 2 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
295: FBProphet
Model Number: 296 with model FBProphet in generation 2 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
296: FBProphet
Model Number: 297 with model FBProphet in generation 2 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
297: FBProphet
Model Number: 298 with model FBProphet in generation 2 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
298: FBProphet
New Generation: 3 of 10
Model Number: 299 with model LastValueNaive in generation 3 of 10
Model Number: 300 with model LastValueNaive in generation 3 of 10
Model Number: 301 with model NVAR in generation 3 of 10
```

```
Model Number: 302 with model NVAR in generation 3 of 10
Model Number: 303 with model NVAR in generation 3 of 10
Model Number: 304 with model NVAR in generation 3 of 10
Model Number: 305 with model GLS in generation 3 of 10
Model Number: 306 with model GLS in generation 3 of 10
Model Number: 307 with model GLS in generation 3 of 10
Model Number: 308 with model MultivariateMotif in generation 3 of 10
Model Number: 309 with model MultivariateMotif in generation 3 of 10
Template Eval Error: ValueError('kth(=100) out of bounds (86)') in model 309:
MultivariateMotif
Model Number: 310 with model MultivariateMotif in generation 3 of 10
Model Number: 311 with model MultivariateMotif in generation 3 of 10
Model Number: 312 with model UnobservedComponents in generation 3 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 312: UnobservedComponents
Model Number: 313 with model UnobservedComponents in generation 3 of 10
Model Number: 314 with model UnobservedComponents in generation 3 of 10
Model Number: 315 with model WindowRegression in generation 3 of 10
Model Number: 316 with model WindowRegression in generation 3 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 100 out of 100 | elapsed:    0.0s finished
[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 100 out of 100 | elapsed:    0.0s finished

Model Number: 317 with model WindowRegression in generation 3 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 317: WindowRegression
Model Number: 318 with model ARDL in generation 3 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 318: ARDL
Model Number: 319 with model ARDL in generation 3 of 10
Model Number: 320 with model ARDL in generation 3 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 320: ARDL
Model Number: 321 with model ARDL in generation 3 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 321: ARDL
Model Number: 322 with model AverageValueNaive in generation 3 of 10
Model Number: 323 with model AverageValueNaive in generation 3 of 10
```

```
Model Number: 324 with model AverageValueNaive in generation 3 of 10
Model Number: 325 with model SectionalMotif in generation 3 of 10
Model Number: 326 with model SectionalMotif in generation 3 of 10
Model Number: 327 with model SectionalMotif in generation 3 of 10
Model Number: 328 with model SectionalMotif in generation 3 of 10
Model Number: 329 with model ETS in generation 3 of 10
Model Number: 330 with model ETS in generation 3 of 10
ETS error ValueError('Can only dampen the trend component')
ETS failed on Close with ValueError('Can only dampen the trend component')
Model Number: 331 with model ETS in generation 3 of 10
Model Number: 332 with model ETS in generation 3 of 10
Model Number: 333 with model SeasonalNaive in generation 3 of 10
Model Number: 334 with model SeasonalNaive in generation 3 of 10
Model Number: 335 with model SeasonalNaive in generation 3 of 10
Model Number: 336 with model SeasonalNaive in generation 3 of 10
Model Number: 337 with model ZeroesNaive in generation 3 of 10
Model Number: 338 with model ZeroesNaive in generation 3 of 10
Model Number: 339 with model ZeroesNaive in generation 3 of 10
Model Number: 340 with model Theta in generation 3 of 10
Model Number: 341 with model Theta in generation 3 of 10
Template Eval Error: ValueError('Model Theta returned NaN for one or more
series. fail_on_forecast_nan=True') in model 341: Theta
Model Number: 342 with model Theta in generation 3 of 10
Model Number: 343 with model Theta in generation 3 of 10
Model Number: 344 with model UnivariateMotif in generation 3 of 10
Model Number: 345 with model UnivariateMotif in generation 3 of 10
Model Number: 346 with model UnivariateMotif in generation 3 of 10
Model Number: 347 with model UnivariateMotif in generation 3 of 10
Model Number: 348 with model MultivariateRegression in generation 3 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\experimental\enable_hist_gradient_boosting.py:16: UserWarning:

Since version 1.0, it is not needed to import enable_hist_gradient_boosting
anymore. HistGradientBoostingClassifier and HistGradientBoostingRegressor are
now stable and can be normally imported from sklearn.ensemble.


Model Number: 349 with model MultivariateRegression in generation 3 of 10
Model Number: 350 with model MultivariateRegression in generation 3 of 10
Model Number: 351 with model MultivariateRegression in generation 3 of 10
Model Number: 352 with model DatepartRegression in generation 3 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 352: DatepartRegression
Model Number: 353 with model DatepartRegression in generation 3 of 10

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
```

```
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 300 out of 300 | elapsed:    0.1s finished

Model Number: 354 with model DatepartRegression in generation 3 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 354: DatepartRegression
Model Number: 355 with model GLM in generation 3 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 355: GLM
Model Number: 356 with model GLM in generation 3 of 10

[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 300 out of 300 | elapsed:    0.0s finished
c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\statsmodels\genmod\families\family.py:1346: RuntimeWarning:

invalid value encountered in log


Model Number: 357 with model GLM in generation 3 of 10
Template Eval Error: ValueError('The first guess on the deviance function
returned a nan.  This could be a boundary  problem and should be reported.') in
model 357: GLM
Model Number: 358 with model GLM in generation 3 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 358: GLM
Model Number: 359 with model GluonTS in generation 3 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 359: GluonTS
Model Number: 360 with model GluonTS in generation 3 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 360: GluonTS
Model Number: 361 with model GluonTS in generation 3 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 361: GluonTS
Model Number: 362 with model GluonTS in generation 3 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 362: GluonTS
Model Number: 363 with model VAR in generation 3 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 363:
VAR
Model Number: 364 with model VAR in generation 3 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 364:
VAR
```

```
Model Number: 365 with model VAR in generation 3 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 365:
VAR
Model Number: 366 with model VAR in generation 3 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 366:
VAR
Model Number: 367 with model VECM in generation 3 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 367:
VECM
Model Number: 368 with model VECM in generation 3 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 368:
VECM
Model Number: 369 with model VECM in generation 3 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 369:
VECM
Model Number: 370 with model VECM in generation 3 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 370:
VECM
Model Number: 371 with model FBProphet in generation 3 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
371: FBProphet
Model Number: 372 with model FBProphet in generation 3 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 372: FBProphet
Model Number: 373 with model FBProphet in generation 3 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 373: FBProphet
Model Number: 374 with model FBProphet in generation 3 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 374: FBProphet
New Generation: 4 of 10
Model Number: 375 with model SeasonalNaive in generation 4 of 10
Model Number: 376 with model SeasonalNaive in generation 4 of 10
Model Number: 377 with model SeasonalNaive in generation 4 of 10
Model Number: 378 with model SeasonalNaive in generation 4 of 10
Model Number: 379 with model LastValueNaive in generation 4 of 10
Model Number: 380 with model LastValueNaive in generation 4 of 10
Model Number: 381 with model ETS in generation 4 of 10
Model Number: 382 with model ETS in generation 4 of 10
Model Number: 383 with model ETS in generation 4 of 10
ETS error ValueError('Can only dampen the trend component')
ETS failed on Close with ValueError('Can only dampen the trend component')
Model Number: 384 with model ETS in generation 4 of 10
ETS error ValueError('Can only dampen the trend component')
ETS failed on Close with ValueError('Can only dampen the trend component')
Model Number: 385 with model ARDL in generation 4 of 10
Model Number: 386 with model ARDL in generation 4 of 10
Model Number: 387 with model ARDL in generation 4 of 10
```

```
Model Number: 388 with model ARDL in generation 4 of 10
Model Number: 389 with model NVAR in generation 4 of 10
Model Number: 390 with model NVAR in generation 4 of 10
Model Number: 391 with model NVAR in generation 4 of 10
Model Number: 392 with model NVAR in generation 4 of 10
Model Number: 393 with model AverageValueNaive in generation 4 of 10
Model Number: 394 with model AverageValueNaive in generation 4 of 10
Model Number: 395 with model AverageValueNaive in generation 4 of 10
Model Number: 396 with model GLS in generation 4 of 10
Model Number: 397 with model GLS in generation 4 of 10
Model Number: 398 with model GLS in generation 4 of 10
Model Number: 399 with model MultivariateRegression in generation 4 of 10
Template Eval Error: ModuleNotFoundError("No module named 'xgboost'") in model
399: MultivariateRegression
Model Number: 400 with model MultivariateRegression in generation 4 of 10
Template Eval Error: ModuleNotFoundError("No module named 'xgboost'") in model
400: MultivariateRegression
Model Number: 401 with model MultivariateRegression in generation 4 of 10
Template Eval Error: ModuleNotFoundError("No module named 'xgboost'") in model
401: MultivariateRegression
Model Number: 402 with model MultivariateRegression in generation 4 of 10
Template Eval Error: ValueError('Some value(s) of y are out of the valid range
for family PoissonDistribution') in model 402: MultivariateRegression
Model Number: 403 with model MultivariateMotif in generation 4 of 10
Model Number: 404 with model MultivariateMotif in generation 4 of 10
Model Number: 405 with model MultivariateMotif in generation 4 of 10
Model Number: 406 with model MultivariateMotif in generation 4 of 10
Model Number: 407 with model WindowRegression in generation 4 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 407: WindowRegression
Model Number: 408 with model WindowRegression in generation 4 of 10
Model Number: 409 with model WindowRegression in generation 4 of 10
Model Number: 410 with model UnobservedComponents in generation 4 of 10
Model Number: 411 with model UnobservedComponents in generation 4 of 10
Model Number: 412 with model UnobservedComponents in generation 4 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 412: UnobservedComponents
Model Number: 413 with model UnivariateMotif in generation 4 of 10
Model Number: 414 with model UnivariateMotif in generation 4 of 10
Model Number: 415 with model UnivariateMotif in generation 4 of 10
Model Number: 416 with model UnivariateMotif in generation 4 of 10
Model Number: 417 with model SectionalMotif in generation 4 of 10
Model Number: 418 with model SectionalMotif in generation 4 of 10
Model Number: 419 with model SectionalMotif in generation 4 of 10
Model Number: 420 with model SectionalMotif in generation 4 of 10
Model Number: 421 with model DatepartRegression in generation 4 of 10
Model Number: 422 with model DatepartRegression in generation 4 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
```

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passed") in model 422: DatepartRegression
Model Number: 423 with model DatepartRegression in generation 4 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 423: DatepartRegression
Model Number: 424 with model ZeroesNaive in generation 4 of 10
Model Number: 425 with model ZeroesNaive in generation 4 of 10
Model Number: 426 with model ZeroesNaive in generation 4 of 10
Model Number: 427 with model Theta in generation 4 of 10
Model Number: 428 with model Theta in generation 4 of 10
Model Number: 429 with model Theta in generation 4 of 10
Model Number: 430 with model Theta in generation 4 of 10
Model Number: 431 with model GLM in generation 4 of 10
Model Number: 432 with model GLM in generation 4 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 432: GLM
Model Number: 433 with model GLM in generation 4 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 433: GLM
Model Number: 434 with model GLM in generation 4 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 434: GLM
Model Number: 435 with model GluonTS in generation 4 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 435: GluonTS
Model Number: 436 with model GluonTS in generation 4 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 436: GluonTS
Model Number: 437 with model GluonTS in generation 4 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 437: GluonTS
Model Number: 438 with model GluonTS in generation 4 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 438: GluonTS
Model Number: 439 with model VAR in generation 4 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 439:
VAR
Model Number: 440 with model VAR in generation 4 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 440:
VAR
Model Number: 441 with model VAR in generation 4 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 441:
VAR
Model Number: 442 with model VAR in generation 4 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 442:
VAR
```

```
Model Number: 443 with model VECM in generation 4 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 443:
VECM
Model Number: 444 with model VECM in generation 4 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 444:
VECM
Model Number: 445 with model VECM in generation 4 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 445:
VECM
Model Number: 446 with model VECM in generation 4 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 446:
VECM
Model Number: 447 with model FBProphet in generation 4 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
447: FBProphet
Model Number: 448 with model FBProphet in generation 4 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
448: FBProphet
Model Number: 449 with model FBProphet in generation 4 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
449: FBProphet
Model Number: 450 with model FBProphet in generation 4 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
450: FBProphet
New Generation: 5 of 10
Model Number: 451 with model SeasonalNaive in generation 5 of 10
Model Number: 452 with model SeasonalNaive in generation 5 of 10
Model Number: 453 with model SeasonalNaive in generation 5 of 10
Model Number: 454 with model SeasonalNaive in generation 5 of 10
Model Number: 455 with model LastValueNaive in generation 5 of 10
Model Number: 456 with model LastValueNaive in generation 5 of 10
Model Number: 457 with model ARDL in generation 5 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 457: ARDL
Model Number: 458 with model ARDL in generation 5 of 10
Model Number: 459 with model ARDL in generation 5 of 10
Model Number: 460 with model ARDL in generation 5 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 460: ARDL
Model Number: 461 with model ETS in generation 5 of 10
Model Number: 462 with model ETS in generation 5 of 10
Model Number: 463 with model ETS in generation 5 of 10
Template Eval Error: ValueError("Model returned NaN due to a preprocessing
transformer {'fillna': 'pad', 'transformations': {'0': 'PowerTransformer', '1':
'PctChangeTransformer'}, 'transformation_params': {'0': {}, '1': {}}}.
fail_on_forecast_nan=True") in model 463: ETS
Model Number: 464 with model ETS in generation 5 of 10
Template Eval Error: ValueError("Model returned NaN due to a preprocessing
```

```
transformer {'fillna': 'pad', 'transformations': {'0': 'PowerTransformer', '1':
'PctChangeTransformer'}, 'transformation_params': {'0': {}, '1': {}}}.
fail_on_forecast_nan=True") in model 464: ETS
Model Number: 465 with model UnivariateMotif in generation 5 of 10
Model Number: 466 with model UnivariateMotif in generation 5 of 10
Model Number: 467 with model UnivariateMotif in generation 5 of 10
Model Number: 468 with model UnivariateMotif in generation 5 of 10
Model Number: 469 with model NVAR in generation 5 of 10
Model Number: 470 with model NVAR in generation 5 of 10
Template Eval Error: ValueError("Model returned NaN due to a preprocessing
transformer {'fillna': 'fake_date', 'transformations': {'0':
'SeasonalDifference', '1': 'RollingMeanTransformer', '2': 'PowerTransformer'},
'transformation_params': {'0': {'lag_1': 7, 'method': 'LastValue'}, '1':
{'fixed': True, 'window': 7}, '2': {}}}. fail_on_forecast_nan=True") in model
470: NVAR
Model Number: 471 with model NVAR in generation 5 of 10
Model Number: 472 with model NVAR in generation 5 of 10
Model Number: 473 with model AverageValueNaive in generation 5 of 10
Model Number: 474 with model AverageValueNaive in generation 5 of 10
Model Number: 475 with model AverageValueNaive in generation 5 of 10
Model Number: 476 with model GLS in generation 5 of 10
Model Number: 477 with model GLS in generation 5 of 10
Model Number: 478 with model MultivariateRegression in generation 5 of 10
Model Number: 479 with model MultivariateRegression in generation 5 of 10
Model Number: 480 with model MultivariateRegression in generation 5 of 10
Model Number: 481 with model MultivariateRegression in generation 5 of 10
Model Number: 482 with model MultivariateMotif in generation 5 of 10
Model Number: 483 with model MultivariateMotif in generation 5 of 10
Model Number: 484 with model MultivariateMotif in generation 5 of 10
Model Number: 485 with model MultivariateMotif in generation 5 of 10
Model Number: 486 with model WindowRegression in generation 5 of 10
Model Number: 487 with model WindowRegression in generation 5 of 10
Model Number: 488 with model WindowRegression in generation 5 of 10
Model Number: 489 with model UnobservedComponents in generation 5 of 10
Model Number: 490 with model UnobservedComponents in generation 5 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 490: UnobservedComponents
Model Number: 491 with model UnobservedComponents in generation 5 of 10
Model Number: 492 with model SectionalMotif in generation 5 of 10
Model Number: 493 with model SectionalMotif in generation 5 of 10
Model Number: 494 with model SectionalMotif in generation 5 of 10
Template Eval Error: ValueError('kth(=100) out of bounds (70)') in model 494:
SectionalMotif
Model Number: 495 with model SectionalMotif in generation 5 of 10
Model Number: 496 with model Theta in generation 5 of 10
Model Number: 497 with model Theta in generation 5 of 10
Model Number: 498 with model Theta in generation 5 of 10
Model Number: 499 with model Theta in generation 5 of 10
```

```
Model Number: 500 with model DatepartRegression in generation 5 of 10
Template Eval Error: ValueError('Model DatepartRegression returned NaN for one
or more series. fail_on_forecast_nan=True') in model 500: DatepartRegression
Model Number: 501 with model DatepartRegression in generation 5 of 10
Template Eval Error: ImportError('Tensorflow not available, install with pip
install tensorflow.') in model 501: DatepartRegression
Model Number: 502 with model DatepartRegression in generation 5 of 10
Model Number: 503 with model ZeroesNaive in generation 5 of 10
Model Number: 504 with model ZeroesNaive in generation 5 of 10
Model Number: 505 with model ZeroesNaive in generation 5 of 10
Model Number: 506 with model GLM in generation 5 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 506: GLM
Model Number: 507 with model GLM in generation 5 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 507: GLM
Model Number: 508 with model GLM in generation 5 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 508: GLM
Model Number: 509 with model GluonTS in generation 5 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 509: GluonTS
Model Number: 510 with model GluonTS in generation 5 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 510: GluonTS
Model Number: 511 with model GluonTS in generation 5 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 511: GluonTS
Model Number: 512 with model GluonTS in generation 5 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 512: GluonTS
Model Number: 513 with model VAR in generation 5 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 513:
VAR
Model Number: 514 with model VAR in generation 5 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 514:
VAR
Model Number: 515 with model VAR in generation 5 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\neighbors\_regression.py:470: UserWarning:

One or more samples have no neighbors within specified radius; predicting NaN.

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
```

```
packages\sklearn\linear_model\_coordinate_descent.py:647: ConvergenceWarning:

Objective did not converge. You might want to increase the number of iterations,
check the scale of the features or consider increasing regularisation. Duality
gap: 2.281e+33, tolerance: 4.779e+29


Template Eval Error: ValueError('Only gave one variable to VAR') in model 515:
VAR
Model Number: 516 with model VAR in generation 5 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 516:
VAR
Model Number: 517 with model VECM in generation 5 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 517:
VECM
Model Number: 518 with model VECM in generation 5 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 518: VECM
Model Number: 519 with model VECM in generation 5 of 10
Template Eval Error: Exception('Transformer Detrend failed on fit') in model
519: VECM
Model Number: 520 with model VECM in generation 5 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 520:
VECM
Model Number: 521 with model FBProphet in generation 5 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 521: FBProphet
Model Number: 522 with model FBProphet in generation 5 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
522: FBProphet
Model Number: 523 with model FBProphet in generation 5 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
523: FBProphet
Model Number: 524 with model FBProphet in generation 5 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
524: FBProphet
New Generation: 6 of 10
Model Number: 525 with model ETS in generation 6 of 10
Model Number: 526 with model ETS in generation 6 of 10
Model Number: 527 with model ETS in generation 6 of 10
Model Number: 528 with model SeasonalNaive in generation 6 of 10
Model Number: 529 with model SeasonalNaive in generation 6 of 10
Model Number: 530 with model SeasonalNaive in generation 6 of 10
Model Number: 531 with model SeasonalNaive in generation 6 of 10
Model Number: 532 with model UnivariateMotif in generation 6 of 10
Model Number: 533 with model UnivariateMotif in generation 6 of 10
Model Number: 534 with model UnivariateMotif in generation 6 of 10
Model Number: 535 with model UnivariateMotif in generation 6 of 10
```

```
Model Number: 536 with model LastValueNaive in generation 6 of 10
Model Number: 537 with model LastValueNaive in generation 6 of 10
Model Number: 538 with model LastValueNaive in generation 6 of 10
Model Number: 539 with model NVAR in generation 6 of 10
Model Number: 540 with model NVAR in generation 6 of 10
Model Number: 541 with model NVAR in generation 6 of 10
Model Number: 542 with model NVAR in generation 6 of 10
c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\linear_model\_coordinate_descent.py:647: ConvergenceWarning:

Objective did not converge. You might want to increase the number of iterations,
check the scale of the features or consider increasing regularisation. Duality
gap: 1.487e+02, tolerance: 3.133e-02

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\linear_model\_coordinate_descent.py:647: ConvergenceWarning:

Objective did not converge. You might want to increase the number of iterations,
check the scale of the features or consider increasing regularisation. Duality
gap: 1.910e-01, tolerance: 3.894e-05


Model Number: 543 with model MultivariateMotif in generation 6 of 10
Model Number: 544 with model MultivariateMotif in generation 6 of 10
Model Number: 545 with model MultivariateMotif in generation 6 of 10
Model Number: 546 with model MultivariateMotif in generation 6 of 10
Model Number: 547 with model AverageValueNaive in generation 6 of 10
Model Number: 548 with model AverageValueNaive in generation 6 of 10
Model Number: 549 with model WindowRegression in generation 6 of 10
Model Number: 550 with model WindowRegression in generation 6 of 10
Template Eval Error: Exception('Transformer DatepartRegression failed on fit')
in model 550: WindowRegression
Model Number: 551 with model WindowRegression in generation 6 of 10
Template Eval Error: ValueError("Input contains NaN, infinity or a value too
large for dtype('float64').") in model 551: WindowRegression
Model Number: 552 with model ARDL in generation 6 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 552: ARDL
Model Number: 553 with model ARDL in generation 6 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 553: ARDL
Model Number: 554 with model ARDL in generation 6 of 10
Model Number: 555 with model ARDL in generation 6 of 10
Model Number: 556 with model GLS in generation 6 of 10
Model Number: 557 with model GLS in generation 6 of 10
Model Number: 558 with model MultivariateRegression in generation 6 of 10
Model Number: 559 with model MultivariateRegression in generation 6 of 10
Model Number: 560 with model MultivariateRegression in generation 6 of 10
```

```
Template Eval Error: ValueError("regression_type='User' but not future_regressor
supplied.") in model 560: MultivariateRegression
Model Number: 561 with model MultivariateRegression in generation 6 of 10
Template Eval Error: ModuleNotFoundError("No module named 'lightgbm'") in model
561: MultivariateRegression
Model Number: 562 with model UnobservedComponents in generation 6 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 562: UnobservedComponents
Model Number: 563 with model UnobservedComponents in generation 6 of 10
Model Number: 564 with model UnobservedComponents in generation 6 of 10
Model Number: 565 with model SectionalMotif in generation 6 of 10
Model Number: 566 with model SectionalMotif in generation 6 of 10
Model Number: 567 with model SectionalMotif in generation 6 of 10
Model Number: 568 with model SectionalMotif in generation 6 of 10
Model Number: 569 with model DatepartRegression in generation 6 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 569: DatepartRegression
Model Number: 570 with model DatepartRegression in generation 6 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 570: DatepartRegression
Model Number: 571 with model DatepartRegression in generation 6 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 571: DatepartRegression
Model Number: 572 with model Theta in generation 6 of 10
Model Number: 573 with model Theta in generation 6 of 10
Model Number: 574 with model Theta in generation 6 of 10
Model Number: 575 with model Theta in generation 6 of 10
Model Number: 576 with model ZeroesNaive in generation 6 of 10
Model Number: 577 with model ZeroesNaive in generation 6 of 10
Model Number: 578 with model ZeroesNaive in generation 6 of 10
Model Number: 579 with model GLM in generation 6 of 10
Model Number: 580 with model GLM in generation 6 of 10
Template Eval Error: ValueError('regression_type=user and no future_regressor
passed') in model 580: GLM
Model Number: 581 with model GLM in generation 6 of 10
Template Eval Error: ValueError('The first guess on the deviance function
returned a nan.  This could be a boundary  problem and should be reported.') in
model 581: GLM
Model Number: 582 with model GLM in generation 6 of 10
Model Number: 583 with model GluonTS in generation 6 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 583: GluonTS
Model Number: 584 with model GluonTS in generation 6 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 584: GluonTS
Model Number: 585 with model GluonTS in generation 6 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 585: GluonTS
```

```
Model Number: 586 with model GluonTS in generation 6 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 586: GluonTS
Model Number: 587 with model VAR in generation 6 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 587:
VAR
Model Number: 588 with model VAR in generation 6 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 588:
VAR
Model Number: 589 with model VAR in generation 6 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 589:
VAR
Model Number: 590 with model VAR in generation 6 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 590:
VAR
Model Number: 591 with model VECM in generation 6 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 591:
VECM
Model Number: 592 with model VECM in generation 6 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 592:
VECM
Model Number: 593 with model VECM in generation 6 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 593:
VECM
Model Number: 594 with model VECM in generation 6 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 594:
VECM
Model Number: 595 with model FBProphet in generation 6 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
595: FBProphet
Model Number: 596 with model FBProphet in generation 6 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 596: FBProphet
Model Number: 597 with model FBProphet in generation 6 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\statsmodels\genmod\families\family.py:1346: RuntimeWarning:

invalid value encountered in log



Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
597: FBProphet
Model Number: 598 with model FBProphet in generation 6 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
598: FBProphet
New Generation: 7 of 10
Model Number: 599 with model ETS in generation 7 of 10
```

```
Model Number: 600 with model ETS in generation 7 of 10
ETS error ValueError('endog must be strictly positive when usingmultiplicative
trend or seasonal components.')
ETS failed on Close with ValueError('endog must be strictly positive when
usingmultiplicative trend or seasonal components.')
Model Number: 601 with model ETS in generation 7 of 10
Model Number: 602 with model ETS in generation 7 of 10
Model Number: 603 with model SeasonalNaive in generation 7 of 10
Model Number: 604 with model SeasonalNaive in generation 7 of 10
Model Number: 605 with model SeasonalNaive in generation 7 of 10
Model Number: 606 with model SeasonalNaive in generation 7 of 10
Model Number: 607 with model ZeroesNaive in generation 7 of 10
Model Number: 608 with model ZeroesNaive in generation 7 of 10
Model Number: 609 with model ZeroesNaive in generation 7 of 10
Model Number: 610 with model UnivariateMotif in generation 7 of 10
Model Number: 611 with model UnivariateMotif in generation 7 of 10
Model Number: 612 with model UnivariateMotif in generation 7 of 10
Model Number: 613 with model UnivariateMotif in generation 7 of 10
Model Number: 614 with model LastValueNaive in generation 7 of 10
Template Eval Error: ValueError('Model LastValueNaive returned NaN for one or
more series. fail_on_forecast_nan=True') in model 614: LastValueNaive
Model Number: 615 with model LastValueNaive in generation 7 of 10
Template Eval Error: ValueError('Model LastValueNaive returned NaN for one or
more series. fail_on_forecast_nan=True') in model 615: LastValueNaive
Model Number: 616 with model NVAR in generation 7 of 10
Model Number: 617 with model NVAR in generation 7 of 10
Template Eval Error: ValueError("Model returned NaN due to a preprocessing
transformer {'fillna': 'fake_date', 'transformations': {'0':
'SeasonalDifference', '1': 'PowerTransformer'}, 'transformation_params': {'0':
{'lag_1': 7, 'method': 'LastValue'}, '1': {}}}. fail_on_forecast_nan=True") in
model 617: NVAR
Model Number: 618 with model NVAR in generation 7 of 10
Model Number: 619 with model NVAR in generation 7 of 10
Model Number: 620 with model MultivariateMotif in generation 7 of 10
Model Number: 621 with model MultivariateMotif in generation 7 of 10
Model Number: 622 with model MultivariateMotif in generation 7 of 10
Model Number: 623 with model MultivariateMotif in generation 7 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\numpy\lib\nanfunctions.py:1584: RuntimeWarning:

All-NaN slice encountered

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\numpy\lib\nanfunctions.py:1584: RuntimeWarning:

All-NaN slice encountered
```

```
Model Number: 624 with model AverageValueNaive in generation 7 of 10
Model Number: 625 with model AverageValueNaive in generation 7 of 10
Model Number: 626 with model WindowRegression in generation 7 of 10
Model Number: 627 with model WindowRegression in generation 7 of 10
Model Number: 628 with model WindowRegression in generation 7 of 10
Model Number: 629 with model ARDL in generation 7 of 10
Model Number: 630 with model ARDL in generation 7 of 10
Template Eval Error: IndexError('tuple index out of range') in model 630: ARDL
Model Number: 631 with model ARDL in generation 7 of 10
Model Number: 632 with model ARDL in generation 7 of 10
Model Number: 633 with model GLS in generation 7 of 10
Model Number: 634 with model GLS in generation 7 of 10
Model Number: 635 with model GLS in generation 7 of 10
Model Number: 636 with model MultivariateRegression in generation 7 of 10
Model Number: 637 with model MultivariateRegression in generation 7 of 10
Template Eval Error: ValueError("regression_type='User' but not future_regressor
supplied.") in model 637: MultivariateRegression
Model Number: 638 with model MultivariateRegression in generation 7 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


Model Number: 639 with model MultivariateRegression in generation 7 of 10
Model Number: 640 with model UnobservedComponents in generation 7 of 10
Model Number: 641 with model UnobservedComponents in generation 7 of 10
Model Number: 642 with model UnobservedComponents in generation 7 of 10
Model Number: 643 with model Theta in generation 7 of 10
Model Number: 644 with model Theta in generation 7 of 10
Template Eval Error: ValueError('Model Theta returned NaN for one or more
series. fail_on_forecast_nan=True') in model 644: Theta
Model Number: 645 with model Theta in generation 7 of 10
Model Number: 646 with model Theta in generation 7 of 10
Model Number: 647 with model SectionalMotif in generation 7 of 10
Model Number: 648 with model SectionalMotif in generation 7 of 10
Model Number: 649 with model SectionalMotif in generation 7 of 10
Model Number: 650 with model SectionalMotif in generation 7 of 10
Model Number: 651 with model DatepartRegression in generation 7 of 10
Model Number: 652 with model DatepartRegression in generation 7 of 10
Model Number: 653 with model DatepartRegression in generation 7 of 10
Template Eval Error: ValueError('Model DatepartRegression returned NaN for one
or more series. fail_on_forecast_nan=True') in model 653: DatepartRegression
Model Number: 654 with model GLM in generation 7 of 10
Template Eval Error: TypeError("ufunc 'isfinite' not supported for the input
types, and the inputs could not be safely coerced to any supported types
according to the casting rule ''safe''") in model 654: GLM
Model Number: 655 with model GLM in generation 7 of 10
```

```
Model Number: 656 with model GLM in generation 7 of 10
Template Eval Error: ValueError('The first guess on the deviance function
returned a nan.  This could be a boundary  problem and should be reported.') in
model 656: GLM
Model Number: 657 with model GLM in generation 7 of 10
Model Number: 658 with model GluonTS in generation 7 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 658: GluonTS
Model Number: 659 with model GluonTS in generation 7 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\neighbors\_regression.py:470: UserWarning:

One or more samples have no neighbors within specified radius; predicting NaN.

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\statsmodels\genmod\families\family.py:1346: RuntimeWarning:

invalid value encountered in log


Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 659: GluonTS
Model Number: 660 with model GluonTS in generation 7 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 660: GluonTS
Model Number: 661 with model GluonTS in generation 7 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 661: GluonTS
Model Number: 662 with model VAR in generation 7 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 662:
VAR
Model Number: 663 with model VAR in generation 7 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 663:
VAR
Model Number: 664 with model VAR in generation 7 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 664:
VAR
Model Number: 665 with model VAR in generation 7 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 665:
VAR
Model Number: 666 with model VECM in generation 7 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 666:
VECM
```

```
Model Number: 667 with model VECM in generation 7 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 667:
VECM
Model Number: 668 with model VECM in generation 7 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 668:
VECM
Model Number: 669 with model VECM in generation 7 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 669:
VECM
Model Number: 670 with model FBProphet in generation 7 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
670: FBProphet
Model Number: 671 with model FBProphet in generation 7 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
671: FBProphet
Model Number: 672 with model FBProphet in generation 7 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
672: FBProphet
Model Number: 673 with model FBProphet in generation 7 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
673: FBProphet
New Generation: 8 of 10
Model Number: 674 with model ETS in generation 8 of 10
Model Number: 675 with model ETS in generation 8 of 10
Model Number: 676 with model ETS in generation 8 of 10
Model Number: 677 with model ETS in generation 8 of 10
Template Eval Error: ValueError("Model returned NaN due to a preprocessing
transformer {'fillna': 'fake_date', 'transformations': {'0':
'SeasonalDifference', '1': 'ClipOutliers', '2': 'PowerTransformer'},
'transformation_params': {'0': {'lag_1': 7, 'method': 'LastValue'}, '1':
{'method': 'clip', 'std_threshold': 3, 'fillna': None}, '2': {}}}.
fail_on_forecast_nan=True") in model 677: ETS
Model Number: 678 with model DatepartRegression in generation 8 of 10
Template Eval Error: ImportError('Tensorflow not available, install with pip
install tensorflow.') in model 678: DatepartRegression
Model Number: 679 with model DatepartRegression in generation 8 of 10

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 420 tasks      | elapsed:    0.2s
[Parallel(n_jobs=-2)]: Done 770 tasks      | elapsed:    0.4s
[Parallel(n_jobs=-2)]: Done 1000 out of 1000 | elapsed:    0.5s finished
[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
```

```
[Parallel(n_jobs=15)]: Done 420 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 770 tasks      | elapsed:    0.0s

Model Number: 680 with model DatepartRegression in generation 8 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 680: DatepartRegression
Model Number: 681 with model SeasonalNaive in generation 8 of 10
Model Number: 682 with model SeasonalNaive in generation 8 of 10
Model Number: 683 with model SeasonalNaive in generation 8 of 10
Model Number: 684 with model SeasonalNaive in generation 8 of 10

[Parallel(n_jobs=15)]: Done 1000 out of 1000 | elapsed:    0.0s finished

Model Number: 685 with model ZeroesNaive in generation 8 of 10
Model Number: 686 with model ZeroesNaive in generation 8 of 10
Model Number: 687 with model ZeroesNaive in generation 8 of 10
Model Number: 688 with model UnivariateMotif in generation 8 of 10
Model Number: 689 with model UnivariateMotif in generation 8 of 10
Model Number: 690 with model UnivariateMotif in generation 8 of 10
Model Number: 691 with model LastValueNaive in generation 8 of 10
Model Number: 692 with model LastValueNaive in generation 8 of 10
Model Number: 693 with model LastValueNaive in generation 8 of 10
Model Number: 694 with model NVAR in generation 8 of 10
Model Number: 695 with model NVAR in generation 8 of 10
Model Number: 696 with model NVAR in generation 8 of 10
Model Number: 697 with model SectionalMotif in generation 8 of 10
Model Number: 698 with model SectionalMotif in generation 8 of 10
Model Number: 699 with model SectionalMotif in generation 8 of 10
Template Eval Error: ValueError("regression_type=='User' but no future_regressor
supplied") in model 699: SectionalMotif
Model Number: 700 with model SectionalMotif in generation 8 of 10
Template Eval Error: ValueError("regression_type=='User' but no future_regressor
supplied") in model 700: SectionalMotif
Model Number: 701 with model MultivariateMotif in generation 8 of 10
Model Number: 702 with model MultivariateMotif in generation 8 of 10
Model Number: 703 with model MultivariateMotif in generation 8 of 10
Model Number: 704 with model MultivariateMotif in generation 8 of 10
Model Number: 705 with model WindowRegression in generation 8 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 705: WindowRegression
Model Number: 706 with model WindowRegression in generation 8 of 10
Model Number: 707 with model WindowRegression in generation 8 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 707: WindowRegression
Model Number: 708 with model AverageValueNaive in generation 8 of 10
Model Number: 709 with model AverageValueNaive in generation 8 of 10
Model Number: 710 with model ARDL in generation 8 of 10
Model Number: 711 with model ARDL in generation 8 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
```

```
supplied") in model 711: ARDL
Model Number: 712 with model ARDL in generation 8 of 10
Model Number: 713 with model ARDL in generation 8 of 10
Model Number: 714 with model GLS in generation 8 of 10
Model Number: 715 with model GLS in generation 8 of 10
Model Number: 716 with model GLS in generation 8 of 10
Model Number: 717 with model MultivariateRegression in generation 8 of 10
Template Eval Error: ValueError("regression_type='User' but not future_regressor
supplied.") in model 717: MultivariateRegression
Model Number: 718 with model MultivariateRegression in generation 8 of 10
Template Eval Error: ValueError("regression_type='User' but not future_regressor
supplied.") in model 718: MultivariateRegression
Model Number: 719 with model MultivariateRegression in generation 8 of 10
Template Eval Error: ValueError("regression_type='User' but not future_regressor
supplied.") in model 719: MultivariateRegression
Model Number: 720 with model MultivariateRegression in generation 8 of 10
Model Number: 721 with model UnobservedComponents in generation 8 of 10
Model Number: 722 with model UnobservedComponents in generation 8 of 10
Model Number: 723 with model UnobservedComponents in generation 8 of 10
Model Number: 724 with model Theta in generation 8 of 10
Model Number: 725 with model Theta in generation 8 of 10
Model Number: 726 with model Theta in generation 8 of 10
Model Number: 727 with model GLM in generation 8 of 10
Model Number: 728 with model GLM in generation 8 of 10
Model Number: 729 with model GLM in generation 8 of 10
Model Number: 730 with model GLM in generation 8 of 10
Model Number: 731 with model GluonTS in generation 8 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 731: GluonTS
Model Number: 732 with model GluonTS in generation 8 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 732: GluonTS
Model Number: 733 with model GluonTS in generation 8 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 733: GluonTS
Model Number: 734 with model GluonTS in generation 8 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 734: GluonTS
Model Number: 735 with model VAR in generation 8 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 735:
VAR
Model Number: 736 with model VAR in generation 8 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 736:
VAR
Model Number: 737 with model VAR in generation 8 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 737:
VAR
Model Number: 738 with model VAR in generation 8 of 10
```

```
Template Eval Error: ValueError('Only gave one variable to VAR') in model 738:
VAR

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\statsmodels\genmod\families\family.py:1582: RuntimeWarning:

invalid value encountered in log


Model Number: 739 with model VECM in generation 8 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 739:
VECM
Model Number: 740 with model VECM in generation 8 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 740: VECM
Model Number: 741 with model VECM in generation 8 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 741:
VECM
Model Number: 742 with model VECM in generation 8 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 742: VECM
Model Number: 743 with model FBProphet in generation 8 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 743: FBProphet
Model Number: 744 with model FBProphet in generation 8 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 744: FBProphet
Model Number: 745 with model FBProphet in generation 8 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 745: FBProphet
Model Number: 746 with model FBProphet in generation 8 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 746: FBProphet
New Generation: 9 of 10
Model Number: 747 with model ETS in generation 9 of 10
Model Number: 748 with model ETS in generation 9 of 10
Model Number: 749 with model ETS in generation 9 of 10
Model Number: 750 with model DatepartRegression in generation 9 of 10
Template Eval Error: ImportError('Tensorflow not available, install with pip
install tensorflow.') in model 750: DatepartRegression
Model Number: 751 with model DatepartRegression in generation 9 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 751: DatepartRegression
Model Number: 752 with model DatepartRegression in generation 9 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 752: DatepartRegression
Model Number: 753 with model UnobservedComponents in generation 9 of 10
Model Number: 754 with model UnobservedComponents in generation 9 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
```

```
supplied") in model 754: UnobservedComponents
Model Number: 755 with model UnobservedComponents in generation 9 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
supplied") in model 755: UnobservedComponents
Model Number: 756 with model LastValueNaive in generation 9 of 10
Model Number: 757 with model LastValueNaive in generation 9 of 10
Model Number: 758 with model LastValueNaive in generation 9 of 10
Model Number: 759 with model ARDL in generation 9 of 10
Model Number: 760 with model ARDL in generation 9 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 760: ARDL
Model Number: 761 with model ARDL in generation 9 of 10
Template Eval Error: IndexError('tuple index out of range') in model 761: ARDL
Model Number: 762 with model ARDL in generation 9 of 10
Model Number: 763 with model SeasonalNaive in generation 9 of 10
Model Number: 764 with model SeasonalNaive in generation 9 of 10
Template Eval Error: ValueError("Model returned NaN due to a preprocessing
transformer {'fillna': 'fake_date', 'transformations': {'0':
'CumSumTransformer', '1': 'Slice', '2': 'PowerTransformer', '3': 'Detrend'},
'transformation_params': {'0': {}, '1': {'method': 0.5}, '2': {}, '3': {'model':
'Linear', 'phi': 1, 'window': None}}}. fail_on_forecast_nan=True") in model 764:
SeasonalNaive
Model Number: 765 with model SeasonalNaive in generation 9 of 10
Model Number: 766 with model SeasonalNaive in generation 9 of 10
Model Number: 767 with model ZeroesNaive in generation 9 of 10
Model Number: 768 with model UnivariateMotif in generation 9 of 10
c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\preprocessing\_data.py:3253: RuntimeWarning:

divide by zero encountered in log

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\autots\tools\probabilistic.py:57: RuntimeWarning:

invalid value encountered in true_divide

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\autots\tools\probabilistic.py:58: RuntimeWarning:

divide by zero encountered in true_divide

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\preprocessing\_data.py:3196: RuntimeWarning:

divide by zero encountered in power

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
```

```
packages\sklearn\preprocessing\_data.py:3196: RuntimeWarning:

divide by zero encountered in power

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\preprocessing\_data.py:3196: RuntimeWarning:

divide by zero encountered in power


Template Eval Error: ValueError('Model UnivariateMotif returned NaN for one or
more series. fail_on_forecast_nan=True') in model 768: UnivariateMotif
Model Number: 769 with model UnivariateMotif in generation 9 of 10
Model Number: 770 with model UnivariateMotif in generation 9 of 10
Template Eval Error: Exception('Transformer QuantileTransformer failed on fit')
in model 770: UnivariateMotif
Model Number: 771 with model UnivariateMotif in generation 9 of 10
Model Number: 772 with model NVAR in generation 9 of 10
Model Number: 773 with model NVAR in generation 9 of 10
Model Number: 774 with model NVAR in generation 9 of 10
Model Number: 775 with model NVAR in generation 9 of 10
Model Number: 776 with model SectionalMotif in generation 9 of 10
Model Number: 777 with model SectionalMotif in generation 9 of 10
c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\utils\validation.py:1688: FutureWarning:

Feature names only support names that are all strings. Got feature names with
dtypes: ['Timestamp', 'str']. An error will be raised in 1.2.

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\numpy\lib\nanfunctions.py:1560: RuntimeWarning:

All-NaN slice encountered

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\utils\validation.py:1688: FutureWarning:

Feature names only support names that are all strings. Got feature names with
dtypes: ['Timestamp', 'str']. An error will be raised in 1.2.


Model Number: 778 with model SectionalMotif in generation 9 of 10
Model Number: 779 with model SectionalMotif in generation 9 of 10
Model Number: 780 with model WindowRegression in generation 9 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 780: WindowRegression
Model Number: 781 with model WindowRegression in generation 9 of 10
Model Number: 782 with model WindowRegression in generation 9 of 10
```

```
Model Number: 783 with model MultivariateMotif in generation 9 of 10
Model Number: 784 with model MultivariateMotif in generation 9 of 10
Model Number: 785 with model MultivariateMotif in generation 9 of 10
Model Number: 786 with model MultivariateMotif in generation 9 of 10
Template Eval Error: ValueError('Model MultivariateMotif returned NaN for one or
more series. fail_on_forecast_nan=True') in model 786: MultivariateMotif
Model Number: 787 with model AverageValueNaive in generation 9 of 10
Model Number: 788 with model AverageValueNaive in generation 9 of 10
Model Number: 789 with model GLS in generation 9 of 10
Model Number: 790 with model GLS in generation 9 of 10
Model Number: 791 with model GLS in generation 9 of 10
Model Number: 792 with model MultivariateRegression in generation 9 of 10
Model Number: 793 with model MultivariateRegression in generation 9 of 10
Model Number: 794 with model MultivariateRegression in generation 9 of 10
Template Eval Error: ValueError("Input contains NaN, infinity or a value too
large for dtype('float64').") in model 794: MultivariateRegression
Model Number: 795 with model MultivariateRegression in generation 9 of 10
Model Number: 796 with model Theta in generation 9 of 10
Model Number: 797 with model Theta in generation 9 of 10
Model Number: 798 with model Theta in generation 9 of 10
Model Number: 799 with model Theta in generation 9 of 10
Model Number: 800 with model GLM in generation 9 of 10
Template Eval Error: ValueError('regression_type=user and no future_regressor
passed') in model 800: GLM
Model Number: 801 with model GLM in generation 9 of 10
Template Eval Error: ValueError('The first guess on the deviance function
returned a nan.  This could be a boundary  problem and should be reported.') in
model 801: GLM
Model Number: 802 with model GLM in generation 9 of 10
Template Eval Error: ValueError('The first guess on the deviance function
returned a nan.  This could be a boundary  problem and should be reported.') in
model 802: GLM
Model Number: 803 with model GluonTS in generation 9 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 803: GluonTS
Model Number: 804 with model GluonTS in generation 9 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 804: GluonTS
Model Number: 805 with model GluonTS in generation 9 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 805: GluonTS
Model Number: 806 with model GluonTS in generation 9 of 10
Template Eval Error: ImportError('GluonTS installation not found or installed
version is incompatible with AutoTS.') in model 806: GluonTS
Model Number: 807 with model VAR in generation 9 of 10
Template Eval Error: IndexError('tuple index out of range') in model 807: VAR
Model Number: 808 with model VAR in generation 9 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 808:
```

```
VAR
Model Number: 809 with model VAR in generation 9 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 809:
VAR
Model Number: 810 with model VAR in generation 9 of 10
Template Eval Error: ValueError('Only gave one variable to VAR') in model 810:
VAR
Model Number: 811 with model VECM in generation 9 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 811:
VECM
Model Number: 812 with model VECM in generation 9 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 812:
VECM
Model Number: 813 with model VECM in generation 9 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 813:
VECM
Model Number: 814 with model VECM in generation 9 of 10
Template Eval Error: ValueError('Only gave one variable to VECM') in model 814:
VECM
Model Number: 815 with model FBProphet in generation 9 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
815: FBProphet
Model Number: 816 with model FBProphet in generation 9 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
816: FBProphet
Model Number: 817 with model FBProphet in generation 9 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
817: FBProphet
Model Number: 818 with model FBProphet in generation 9 of 10
Template Eval Error: ModuleNotFoundError("No module named 'prophet'") in model
818: FBProphet
New Generation: 10 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\statsmodels\genmod\families\family.py:1346: RuntimeWarning:

invalid value encountered in log

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\statsmodels\genmod\families\family.py:1346: RuntimeWarning:

invalid value encountered in log


Model Number: 819 with model ETS in generation 10 of 10
ETS error ValueError('endog must be strictly positive when usingmultiplicative
trend or seasonal components.')
ETS failed on Close with ValueError('endog must be strictly positive when
usingmultiplicative trend or seasonal components.')
```

```
Model Number: 820 with model ETS in generation 10 of 10
Model Number: 821 with model ETS in generation 10 of 10
Model Number: 822 with model ETS in generation 10 of 10
ETS error ValueError('endog must be strictly positive when usingmultiplicative
trend or seasonal components.')
ETS failed on Close with ValueError('endog must be strictly positive when
usingmultiplicative trend or seasonal components.')
Model Number: 823 with model DatepartRegression in generation 10 of 10
Template Eval Error: ValueError("regression_type='User' but no future_regressor
passed") in model 823: DatepartRegression
Model Number: 824 with model DatepartRegression in generation 10 of 10
Model Number: 825 with model DatepartRegression in generation 10 of 10

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 420 tasks      | elapsed:    0.2s
[Parallel(n_jobs=-2)]: Done 770 tasks      | elapsed:    0.4s
[Parallel(n_jobs=-2)]: Done 1000 out of 1000 | elapsed:    0.5s finished
[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 420 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 770 tasks      | elapsed:    0.0s

Model Number: 826 with model UnobservedComponents in generation 10 of 10

[Parallel(n_jobs=15)]: Done 1000 out of 1000 | elapsed:    0.0s finished

Model Number: 827 with model UnobservedComponents in generation 10 of 10
Model Number: 828 with model UnobservedComponents in generation 10 of 10
Model Number: 829 with model LastValueNaive in generation 10 of 10
Model Number: 830 with model LastValueNaive in generation 10 of 10
Model Number: 831 with model LastValueNaive in generation 10 of 10
Model Number: 832 with model Theta in generation 10 of 10
Model Number: 833 with model Theta in generation 10 of 10
Model Number: 834 with model Theta in generation 10 of 10
Model Number: 835 with model Theta in generation 10 of 10
Model Number: 836 with model ARDL in generation 10 of 10
Model Number: 837 with model ARDL in generation 10 of 10
Template Eval Error: ValueError("regression_type='User' but future_regressor not
supplied") in model 837: ARDL
Model Number: 838 with model ARDL in generation 10 of 10
Model Number: 839 with model ARDL in generation 10 of 10
Model Number: 840 with model MultivariateRegression in generation 10 of 10
Model Number: 841 with model MultivariateRegression in generation 10 of 10
Template Eval Error: Exception('Transformer Detrend failed on fit') in model
841: MultivariateRegression
```

```
Model Number: 842 with model MultivariateRegression in generation 10 of 10
Template Eval Error: ValueError("regression_type='User' but not future_regressor
supplied.") in model 842: MultivariateRegression
Model Number: 843 with model MultivariateRegression in generation 10 of 10
Model Number: 844 with model ZeroesNaive in generation 10 of 10
Model Number: 845 with model ZeroesNaive in generation 10 of 10
Model Number: 846 with model ZeroesNaive in generation 10 of 10
Model Number: 847 with model NVAR in generation 10 of 10
Model Number: 848 with model NVAR in generation 10 of 10
Model Number: 849 with model NVAR in generation 10 of 10
Model Number: 850 with model NVAR in generation 10 of 10
Model Number: 851 with model UnivariateMotif in generation 10 of 10
Model Number: 852 with model UnivariateMotif in generation 10 of 10
Model Number: 853 with model UnivariateMotif in generation 10 of 10
Model Number: 854 with model UnivariateMotif in generation 10 of 10
Model Number: 855 with model SeasonalNaive in generation 10 of 10
Model Number: 856 with model SeasonalNaive in generation 10 of 10
Model Number: 857 with model SeasonalNaive in generation 10 of 10
Model Number: 858 with model SeasonalNaive in generation 10 of 10
Model Number: 859 with model SectionalMotif in generation 10 of 10
Model Number: 860 with model SectionalMotif in generation 10 of 10
Model Number: 861 with model SectionalMotif in generation 10 of 10
Model Number: 862 with model SectionalMotif in generation 10 of 10
Model Number: 863 with model WindowRegression in generation 10 of 10
Template Eval Error: ValueError('Model WindowRegression returned NaN for one or
more series. fail_on_forecast_nan=True') in model 863: WindowRegression
Model Number: 864 with model WindowRegression in generation 10 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\neighbors\_regression.py:470: UserWarning:

One or more samples have no neighbors within specified radius; predicting NaN.


Model Number: 865 with model WindowRegression in generation 10 of 10
Model Number: 866 with model MultivariateMotif in generation 10 of 10
Model Number: 867 with model MultivariateMotif in generation 10 of 10
Model Number: 868 with model MultivariateMotif in generation 10 of 10
Model Number: 869 with model MultivariateMotif in generation 10 of 10
Model Number: 870 with model AverageValueNaive in generation 10 of 10
Model Number: 871 with model AverageValueNaive in generation 10 of 10
Model Number: 872 with model AverageValueNaive in generation 10 of 10

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\linear_model\_coordinate_descent.py:2441: ConvergenceWarning:

Objective did not converge. You might want to increase the number of iterations.
Duality gap: 2185.7001469258394, tolerance: 208.7192424681676
```

```
Model Number: 873 with model GLS in generation 10 of 10
Model Number: 874 with model GLS in generation 10 of 10
Model Number: 875 with model Ensemble in generation 11 of 0

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\autots\models\ensemble.py:918: FutureWarning:

The default dtype for empty Series will be 'object' instead of 'float64' in a
future version. Specify a dtype explicitly to silence this warning.

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


Model Number: 876 with model Ensemble in generation 11 of 0
ETS error ValueError('endog must be strictly positive when usingmultiplicative
trend or seasonal components.')
ETS failed on Close with ValueError('endog must be strictly positive when
usingmultiplicative trend or seasonal components.')

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 420 tasks      | elapsed:    0.2s
[Parallel(n_jobs=-2)]: Done 770 tasks      | elapsed:    0.4s
[Parallel(n_jobs=-2)]: Done 1000 out of 1000 | elapsed:    0.5s finished
[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 420 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 770 tasks      | elapsed:    0.0s

Model Number: 877 with model Ensemble in generation 11 of 0

[Parallel(n_jobs=15)]: Done 1000 out of 1000 | elapsed:    0.0s finished

Model Number: 878 with model Ensemble in generation 11 of 0

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.1s
```

```
[Parallel(n_jobs=-2)]: Done 420 tasks      | elapsed:    0.2s
[Parallel(n_jobs=-2)]: Done 770 tasks      | elapsed:    0.4s
[Parallel(n_jobs=-2)]: Done 1000 out of 1000 | elapsed:    0.5s finished
[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 420 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 770 tasks      | elapsed:    0.0s

Model Number: 879 with model Ensemble in generation 11 of 0

[Parallel(n_jobs=15)]: Done 1000 out of 1000 | elapsed:    0.0s finished
c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


Model Number: 880 with model Ensemble in generation 11 of 0

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


Model Number: 881 with model Ensemble in generation 11 of 0

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


Model Number: 882 with model Ensemble in generation 11 of 0

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


Validation Round: 1
Model Number: 1 of 132 with model Ensemble for Validation 1

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 420 tasks      | elapsed:    0.2s
[Parallel(n_jobs=-2)]: Done 770 tasks      | elapsed:    0.4s
[Parallel(n_jobs=-2)]: Done 1000 out of 1000 | elapsed:    0.5s finished
```

```
[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 420 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 770 tasks      | elapsed:    0.0s

1 - Ensemble with avg smape 8.0:
Model Number: 2 of 132 with model Ensemble for Validation 1

[Parallel(n_jobs=15)]: Done 1000 out of 1000 | elapsed:    0.0s finished
c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


2 - Ensemble with avg smape 13.15:
Model Number: 3 of 132 with model Ensemble for Validation 1

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


3 - Ensemble with avg smape 13.69:
Model Number: 4 of 132 with model ETS for Validation 1
4 - ETS with avg smape 13.04:
Model Number: 5 of 132 with model Ensemble for Validation 1
5 - Ensemble with avg smape 13.24:
Model Number: 6 of 132 with model ETS for Validation 1
6 - ETS with avg smape 13.34:
Model Number: 7 of 132 with model ETS for Validation 1
ETS error ValueError('endog must be strictly positive when usingmultiplicative
trend or seasonal components.')
ETS failed on Close with ValueError('endog must be strictly positive when
usingmultiplicative trend or seasonal components.')
7 - ETS with avg smape 13.34:
Model Number: 8 of 132 with model DatepartRegression for Validation 1
8 - DatepartRegression with avg smape 13.34:
Model Number: 9 of 132 with model Ensemble for Validation 1

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:
```

```
Liblinear failed to converge, increase the number of iterations.


ETS error ValueError('endog must be strictly positive when usingmultiplicative
trend or seasonal components.')
ETS failed on Close with ValueError('endog must be strictly positive when
usingmultiplicative trend or seasonal components.')

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 420 tasks      | elapsed:    0.2s
[Parallel(n_jobs=-2)]: Done 770 tasks      | elapsed:    0.4s

9 - Ensemble with avg smape 13.34:
Model Number: 10 of 132 with model Ensemble for Validation 1

[Parallel(n_jobs=-2)]: Done 1000 out of 1000 | elapsed:    0.5s finished
[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 420 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 770 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 1000 out of 1000 | elapsed:    0.0s finished
c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


10 - Ensemble with avg smape 13.11:
Model Number: 11 of 132 with model Ensemble for Validation 1

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


11 - Ensemble with avg smape 13.11:
Model Number: 12 of 132 with model DatepartRegression for Validation 1

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
```

```
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 420 tasks      | elapsed:    0.2s
[Parallel(n_jobs=-2)]: Done 770 tasks      | elapsed:    0.4s
[Parallel(n_jobs=-2)]: Done 1000 out of 1000 | elapsed:    0.5s finished
[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 420 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 770 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 1000 out of 1000 | elapsed:    0.0s finished

12 - DatepartRegression with avg smape 7.38:
Model Number: 13 of 132 with model MultivariateRegression for Validation 1
13 - MultivariateRegression with avg smape 12.93:
Model Number: 14 of 132 with model UnobservedComponents for Validation 1
14 - UnobservedComponents with avg smape 14.68:
Model Number: 15 of 132 with model LastValueNaive for Validation 1
15 - LastValueNaive with avg smape 12.96:
Model Number: 16 of 132 with model LastValueNaive for Validation 1
16 - LastValueNaive with avg smape 12.96:
Model Number: 17 of 132 with model Theta for Validation 1
17 - Theta with avg smape 12.99:
Model Number: 18 of 132 with model LastValueNaive for Validation 1
18 - LastValueNaive with avg smape 12.96:
Model Number: 19 of 132 with model UnobservedComponents for Validation 1
19 - UnobservedComponents with avg smape 13.11:
Model Number: 20 of 132 with model UnobservedComponents for Validation 1
20 - UnobservedComponents with avg smape 13.11:
Model Number: 21 of 132 with model ARDL for Validation 1
21 - ARDL with avg smape 12.04:
Model Number: 22 of 132 with model MultivariateRegression for Validation 1
22 - MultivariateRegression with avg smape 12.07:
Model Number: 23 of 132 with model ZeroesNaive for Validation 1
23 - ZeroesNaive with avg smape 13.34:
Model Number: 24 of 132 with model ZeroesNaive for Validation 1
24 - ZeroesNaive with avg smape 12.96:
Model Number: 25 of 132 with model NVAR for Validation 1
25 - NVAR with avg smape 12.4:
Model Number: 26 of 132 with model UnivariateMotif for Validation 1
26 - UnivariateMotif with avg smape 12.8:
Model Number: 27 of 132 with model UnivariateMotif for Validation 1
27 - UnivariateMotif with avg smape 12.75:
Model Number: 28 of 132 with model Ensemble for Validation 1
28 - Ensemble with avg smape 8.87:
Model Number: 29 of 132 with model ETS for Validation 1
29 - ETS with avg smape 11.99:
Model Number: 30 of 132 with model NVAR for Validation 1
```

```
30 - NVAR with avg smape 10.6:
Model Number: 31 of 132 with model NVAR for Validation 1
31 - NVAR with avg smape 10.6:
Model Number: 32 of 132 with model LastValueNaive for Validation 1
32 - LastValueNaive with avg smape 7.74:
Model Number: 33 of 132 with model UnivariateMotif for Validation 1
33 - UnivariateMotif with avg smape 7.84:
Model Number: 34 of 132 with model SeasonalNaive for Validation 1
34 - SeasonalNaive with avg smape 8.0:
Model Number: 35 of 132 with model SeasonalNaive for Validation 1
35 - SeasonalNaive with avg smape 8.96:
Model Number: 36 of 132 with model NVAR for Validation 1
36 - NVAR with avg smape 3.91:
Model Number: 37 of 132 with model NVAR for Validation 1
37 - NVAR with avg smape 13.22:
Model Number: 38 of 132 with model SectionalMotif for Validation 1
38 - SectionalMotif with avg smape 4.03:
Model Number: 39 of 132 with model ARDL for Validation 1
39 - ARDL with avg smape 6.85:
Model Number: 40 of 132 with model MultivariateMotif for Validation 1
40 - MultivariateMotif with avg smape 5.41:
Model Number: 41 of 132 with model AverageValueNaive for Validation 1
41 - AverageValueNaive with avg smape 9.49:
Model Number: 42 of 132 with model ETS for Validation 1
42 - ETS with avg smape 7.74:
Model Number: 43 of 132 with model WindowRegression for Validation 1
43 - WindowRegression with avg smape 9.88:
Model Number: 44 of 132 with model LastValueNaive for Validation 1
44 - LastValueNaive with avg smape 7.77:
Model Number: 45 of 132 with model LastValueNaive for Validation 1
45 - LastValueNaive with avg smape 7.77:
Model Number: 46 of 132 with model MultivariateMotif for Validation 1
46 - MultivariateMotif with avg smape 8.28:
Model Number: 47 of 132 with model ARDL for Validation 1
47 - ARDL with avg smape 7.84:
Model Number: 48 of 132 with model NVAR for Validation 1
48 - NVAR with avg smape 4.7:
Model Number: 49 of 132 with model ARDL for Validation 1
49 - ARDL with avg smape 7.87:
Model Number: 50 of 132 with model AverageValueNaive for Validation 1
50 - AverageValueNaive with avg smape 9.87:
Model Number: 51 of 132 with model ARDL for Validation 1
51 - ARDL with avg smape 8.04:
Model Number: 52 of 132 with model GLS for Validation 1
52 - GLS with avg smape 9.26:
Model Number: 53 of 132 with model MultivariateMotif for Validation 1
53 - MultivariateMotif with avg smape 3.41:
Model Number: 54 of 132 with model ETS for Validation 1
```

```
54 - ETS with avg smape 8.53:
Model Number: 55 of 132 with model MultivariateRegression for Validation 1
55 - MultivariateRegression with avg smape 6.62:
Model Number: 56 of 132 with model GLS for Validation 1
56 - GLS with avg smape 8.13:
Model Number: 57 of 132 with model NVAR for Validation 1
57 - NVAR with avg smape 4.53:
Model Number: 58 of 132 with model NVAR for Validation 1
58 - NVAR with avg smape 13.2:
Model Number: 59 of 132 with model DatepartRegression for Validation 1
59 - DatepartRegression with avg smape 7.91:
Model Number: 60 of 132 with model UnobservedComponents for Validation 1
60 - UnobservedComponents with avg smape 5.19:
Model Number: 61 of 132 with model MultivariateRegression for Validation 1
61 - MultivariateRegression with avg smape 7.85:
Model Number: 62 of 132 with model ARDL for Validation 1
62 - ARDL with avg smape 10.23:
Model Number: 63 of 132 with model ARDL for Validation 1
63 - ARDL with avg smape 8.06:
Model Number: 64 of 132 with model UnivariateMotif for Validation 1
64 - UnivariateMotif with avg smape 7.92:
Model Number: 65 of 132 with model AverageValueNaive for Validation 1
65 - AverageValueNaive with avg smape 7.06:
Model Number: 66 of 132 with model ARDL for Validation 1
66 - ARDL with avg smape 4.63:
Model Number: 67 of 132 with model SectionalMotif for Validation 1
67 - SectionalMotif with avg smape 12.52:
Model Number: 68 of 132 with model MultivariateRegression for Validation 1
68 - MultivariateRegression with avg smape 7.46:
Model Number: 69 of 132 with model WindowRegression for Validation 1
69 - WindowRegression with avg smape 9.23:
Model Number: 70 of 132 with model Theta for Validation 1
70 - Theta with avg smape 7.95:
Model Number: 71 of 132 with model UnivariateMotif for Validation 1
71 - UnivariateMotif with avg smape 9.34:
Model Number: 72 of 132 with model SeasonalNaive for Validation 1
72 - SeasonalNaive with avg smape 5.68:
Model Number: 73 of 132 with model Theta for Validation 1
73 - Theta with avg smape 7.62:
Model Number: 74 of 132 with model MultivariateRegression for Validation 1
74 - MultivariateRegression with avg smape 7.42:
Model Number: 75 of 132 with model Theta for Validation 1
75 - Theta with avg smape 7.62:
Model Number: 76 of 132 with model AverageValueNaive for Validation 1
76 - AverageValueNaive with avg smape 6.91:
Model Number: 77 of 132 with model AverageValueNaive for Validation 1
77 - AverageValueNaive with avg smape 6.91:
Model Number: 78 of 132 with model MultivariateRegression for Validation 1
```

```
78 - MultivariateRegression with avg smape 7.1:
Model Number: 79 of 132 with model DatepartRegression for Validation 1

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 300 out of 300 | elapsed:    0.1s finished

79 - DatepartRegression with avg smape 5.07:
Model Number: 80 of 132 with model SectionalMotif for Validation 1
80 - SectionalMotif with avg smape 4.62:
Model Number: 81 of 132 with model LastValueNaive for Validation 1
81 - LastValueNaive with avg smape 7.59:
Model Number: 82 of 132 with model Theta for Validation 1

[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 300 out of 300 | elapsed:    0.0s finished

82 - Theta with avg smape 7.65:
Model Number: 83 of 132 with model LastValueNaive for Validation 1
83 - LastValueNaive with avg smape 7.57:
Model Number: 84 of 132 with model Theta for Validation 1
84 - Theta with avg smape 7.64:
Model Number: 85 of 132 with model Theta for Validation 1
85 - Theta with avg smape 7.64:
Model Number: 86 of 132 with model WindowRegression for Validation 1
86 - WindowRegression with avg smape 7.33:
Model Number: 87 of 132 with model MultivariateMotif for Validation 1
87 - MultivariateMotif with avg smape 10.78:
Model Number: 88 of 132 with model UnobservedComponents for Validation 1

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


88 - UnobservedComponents with avg smape 12.05:
Model Number: 89 of 132 with model SeasonalNaive for Validation 1
89 - SeasonalNaive with avg smape 6.74:
Model Number: 90 of 132 with model AverageValueNaive for Validation 1
90 - AverageValueNaive with avg smape 6.76:
Model Number: 91 of 132 with model SeasonalNaive for Validation 1
91 - SeasonalNaive with avg smape 11.48:
Model Number: 92 of 132 with model MultivariateMotif for Validation 1
92 - MultivariateMotif with avg smape 11.74:
Model Number: 93 of 132 with model AverageValueNaive for Validation 1
```

```
93 - AverageValueNaive with avg smape 5.48:
Model Number: 94 of 132 with model SeasonalNaive for Validation 1
94 - SeasonalNaive with avg smape 7.57:
Model Number: 95 of 132 with model MultivariateMotif for Validation 1
95 - MultivariateMotif with avg smape 9.07:
Model Number: 96 of 132 with model AverageValueNaive for Validation 1
96 - AverageValueNaive with avg smape 5.9:
Model Number: 97 of 132 with model SeasonalNaive for Validation 1
97 - SeasonalNaive with avg smape 7.75:
Model Number: 98 of 132 with model SeasonalNaive for Validation 1
98 - SeasonalNaive with avg smape 4.75:
Model Number: 99 of 132 with model ZeroesNaive for Validation 1
99 - ZeroesNaive with avg smape 11.48:
Model Number: 100 of 132 with model Theta for Validation 1
100 - Theta with avg smape 3.98:
Model Number: 101 of 132 with model MultivariateMotif for Validation 1
101 - MultivariateMotif with avg smape 5.93:
Model Number: 102 of 132 with model UnivariateMotif for Validation 1
102 - UnivariateMotif with avg smape 7.31:
Model Number: 103 of 132 with model ZeroesNaive for Validation 1
103 - ZeroesNaive with avg smape 7.31:
Model Number: 104 of 132 with model UnivariateMotif for Validation 1
104 - UnivariateMotif with avg smape 7.31:
Model Number: 105 of 132 with model ZeroesNaive for Validation 1
105 - ZeroesNaive with avg smape 10.39:
Model Number: 106 of 132 with model MultivariateRegression for Validation 1
106 - MultivariateRegression with avg smape 5.0:
Model Number: 107 of 132 with model ETS for Validation 1
107 - ETS with avg smape 11.69:
Model Number: 108 of 132 with model UnobservedComponents for Validation 1
108 - UnobservedComponents with avg smape 4.02:
Model Number: 109 of 132 with model GLS for Validation 1
109 - GLS with avg smape 9.07:
Model Number: 110 of 132 with model GLM for Validation 1
110 - GLM with avg smape 8.78:
Model Number: 111 of 132 with model MultivariateMotif for Validation 1
111 - MultivariateMotif with avg smape 4.02:
Model Number: 112 of 132 with model UnivariateMotif for Validation 1
112 - UnivariateMotif with avg smape 11.14:
Model Number: 113 of 132 with model GLS for Validation 1
113 - GLS with avg smape 8.92:
Model Number: 114 of 132 with model GLM for Validation 1
114 - GLM with avg smape 8.96:
Model Number: 115 of 132 with model SectionalMotif for Validation 1
115 - SectionalMotif with avg smape 11.47:
Model Number: 116 of 132 with model ETS for Validation 1
116 - ETS with avg smape 7.32:
Model Number: 117 of 132 with model ZeroesNaive for Validation 1
```

```
117 - ZeroesNaive with avg smape 4.01:
Model Number: 118 of 132 with model GLM for Validation 1
118 - GLM with avg smape 7.19:
Model Number: 119 of 132 with model ZeroesNaive for Validation 1
119 - ZeroesNaive with avg smape 6.59:
Model Number: 120 of 132 with model UnobservedComponents for Validation 1
120 - UnobservedComponents with avg smape 11.99:
Model Number: 121 of 132 with model WindowRegression for Validation 1
121 - WindowRegression with avg smape 8.19:
Model Number: 122 of 132 with model DatepartRegression for Validation 1

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 300 out of 300 | elapsed:    0.1s finished

122 - DatepartRegression with avg smape 10.81:
Model Number: 123 of 132 with model ZeroesNaive for Validation 1
123 - ZeroesNaive with avg smape 7.31:
Model Number: 124 of 132 with model SectionalMotif for Validation 1
124 - SectionalMotif with avg smape 4.13:
Model Number: 125 of 132 with model SectionalMotif for Validation 1
125 - SectionalMotif with avg smape 14.53:
Model Number: 126 of 132 with model SectionalMotif for Validation 1
126 - SectionalMotif with avg smape 7.31:
Model Number: 127 of 132 with model WindowRegression for Validation 1

[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 300 out of 300 | elapsed:    0.0s finished

127 - WindowRegression with avg smape 16.34:
Model Number: 128 of 132 with model UnobservedComponents for Validation 1
128 - UnobservedComponents with avg smape 7.75:
Model Number: 129 of 132 with model GLS for Validation 1
129 - GLS with avg smape 3.89:
Model Number: 130 of 132 with model GLS for Validation 1
130 - GLS with avg smape 3.88:
Model Number: 131 of 132 with model WindowRegression for Validation 1
131 - WindowRegression with avg smape 2.41:
Model Number: 132 of 132 with model SectionalMotif for Validation 1
132 - SectionalMotif with avg smape 13.19:
Validation Round: 2
Model Number: 1 of 132 with model Ensemble for Validation 2

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
```

```
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 420 tasks      | elapsed:    0.2s
[Parallel(n_jobs=-2)]: Done 770 tasks      | elapsed:    0.4s
[Parallel(n_jobs=-2)]: Done 1000 out of 1000 | elapsed:    0.5s finished
[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 420 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 770 tasks      | elapsed:    0.0s

1 - Ensemble with avg smape 20.02:
Model Number: 2 of 132 with model Ensemble for Validation 2

[Parallel(n_jobs=15)]: Done 1000 out of 1000 | elapsed:    0.0s finished
c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


2 - Ensemble with avg smape 20.03:
Model Number: 3 of 132 with model Ensemble for Validation 2

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


3 - Ensemble with avg smape 20.01:
Model Number: 4 of 132 with model ETS for Validation 2
4 - ETS with avg smape 20.0:
Model Number: 5 of 132 with model Ensemble for Validation 2
5 - Ensemble with avg smape 20.03:
Model Number: 6 of 132 with model ETS for Validation 2
6 - ETS with avg smape 20.04:
Model Number: 7 of 132 with model ETS for Validation 2
ETS error ValueError('endog must be strictly positive when usingmultiplicative
trend or seasonal components.')
ETS failed on Close with ValueError('endog must be strictly positive when
usingmultiplicative trend or seasonal components.')
7 - ETS with avg smape 20.04:
Model Number: 8 of 132 with model DatepartRegression for Validation 2
8 - DatepartRegression with avg smape 20.04:
Model Number: 9 of 132 with model Ensemble for Validation 2

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:
```

```
Liblinear failed to converge, increase the number of iterations.

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


ETS error ValueError('endog must be strictly positive when usingmultiplicative
trend or seasonal components.')
ETS failed on Close with ValueError('endog must be strictly positive when
usingmultiplicative trend or seasonal components.')

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 420 tasks      | elapsed:    0.2s
[Parallel(n_jobs=-2)]: Done 770 tasks      | elapsed:    0.4s

9 - Ensemble with avg smape 20.04:
Model Number: 10 of 132 with model Ensemble for Validation 2

[Parallel(n_jobs=-2)]: Done 1000 out of 1000 | elapsed:    0.5s finished
[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 420 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 770 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 1000 out of 1000 | elapsed:    0.0s finished
c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


10 - Ensemble with avg smape 20.04:
Model Number: 11 of 132 with model Ensemble for Validation 2

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.
```

```
11 - Ensemble with avg smape 20.05:
Model Number: 12 of 132 with model DatepartRegression for Validation 2

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 420 tasks      | elapsed:    0.2s
[Parallel(n_jobs=-2)]: Done 770 tasks      | elapsed:    0.4s
[Parallel(n_jobs=-2)]: Done 1000 out of 1000 | elapsed:    0.5s finished
[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 420 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 770 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 1000 out of 1000 | elapsed:    0.0s finished

12 - DatepartRegression with avg smape 20.3:
Model Number: 13 of 132 with model MultivariateRegression for Validation 2
13 - MultivariateRegression with avg smape 20.1:
Model Number: 14 of 132 with model UnobservedComponents for Validation 2
14 - UnobservedComponents with avg smape 20.0:
Model Number: 15 of 132 with model LastValueNaive for Validation 2
15 - LastValueNaive with avg smape 20.01:
Model Number: 16 of 132 with model LastValueNaive for Validation 2
16 - LastValueNaive with avg smape 20.01:
Model Number: 17 of 132 with model Theta for Validation 2
17 - Theta with avg smape 20.06:
Model Number: 18 of 132 with model LastValueNaive for Validation 2
18 - LastValueNaive with avg smape 20.01:
Model Number: 19 of 132 with model UnobservedComponents for Validation 2
19 - UnobservedComponents with avg smape 20.11:
Model Number: 20 of 132 with model UnobservedComponents for Validation 2
20 - UnobservedComponents with avg smape 20.14:
Model Number: 21 of 132 with model ARDL for Validation 2
21 - ARDL with avg smape 20.15:
Model Number: 22 of 132 with model MultivariateRegression for Validation 2
22 - MultivariateRegression with avg smape 20.02:
Model Number: 23 of 132 with model ZeroesNaive for Validation 2
23 - ZeroesNaive with avg smape 20.04:
Model Number: 24 of 132 with model ZeroesNaive for Validation 2
24 - ZeroesNaive with avg smape 20.01:
Model Number: 25 of 132 with model NVAR for Validation 2
25 - NVAR with avg smape 20.03:
Model Number: 26 of 132 with model UnivariateMotif for Validation 2
26 - UnivariateMotif with avg smape 20.01:
Model Number: 27 of 132 with model UnivariateMotif for Validation 2
27 - UnivariateMotif with avg smape 20.03:
```

```
Model Number: 28 of 132 with model Ensemble for Validation 2
28 - Ensemble with avg smape 18.85:
Model Number: 29 of 132 with model ETS for Validation 2
29 - ETS with avg smape 20.14:
Model Number: 30 of 132 with model NVAR for Validation 2
30 - NVAR with avg smape 20.11:
Model Number: 31 of 132 with model NVAR for Validation 2
31 - NVAR with avg smape 20.11:
Model Number: 32 of 132 with model LastValueNaive for Validation 2
32 - LastValueNaive with avg smape 18.32:
Model Number: 33 of 132 with model UnivariateMotif for Validation 2
33 - UnivariateMotif with avg smape 15.57:
Model Number: 34 of 132 with model SeasonalNaive for Validation 2
34 - SeasonalNaive with avg smape 18.21:
Model Number: 35 of 132 with model SeasonalNaive for Validation 2
35 - SeasonalNaive with avg smape 20.3:
Model Number: 36 of 132 with model NVAR for Validation 2
36 - NVAR with avg smape 15.86:
Model Number: 37 of 132 with model NVAR for Validation 2
37 - NVAR with avg smape 11.59:
Model Number: 38 of 132 with model SectionalMotif for Validation 2
38 - SectionalMotif with avg smape 56.12:
Model Number: 39 of 132 with model ARDL for Validation 2
39 - ARDL with avg smape 11.49:
Model Number: 40 of 132 with model MultivariateMotif for Validation 2
40 - MultivariateMotif with avg smape 15.66:
Model Number: 41 of 132 with model AverageValueNaive for Validation 2
41 - AverageValueNaive with avg smape 11.27:
Model Number: 42 of 132 with model ETS for Validation 2
42 - ETS with avg smape 18.32:
Model Number: 43 of 132 with model WindowRegression for Validation 2
43 - WindowRegression with avg smape 28.91:
Model Number: 44 of 132 with model LastValueNaive for Validation 2
44 - LastValueNaive with avg smape 18.87:
Model Number: 45 of 132 with model LastValueNaive for Validation 2
45 - LastValueNaive with avg smape 18.87:
Model Number: 46 of 132 with model MultivariateMotif for Validation 2
46 - MultivariateMotif with avg smape 10.51:
Model Number: 47 of 132 with model ARDL for Validation 2
47 - ARDL with avg smape 18.48:
Model Number: 48 of 132 with model NVAR for Validation 2
48 - NVAR with avg smape 9.2:
Model Number: 49 of 132 with model ARDL for Validation 2
49 - ARDL with avg smape 18.74:
Model Number: 50 of 132 with model AverageValueNaive for Validation 2
50 - AverageValueNaive with avg smape 11.12:
Model Number: 51 of 132 with model ARDL for Validation 2
51 - ARDL with avg smape 18.19:
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Model Number: 52 of 132 with model GLS for Validation 2
52 - GLS with avg smape 11.23:
Model Number: 53 of 132 with model MultivariateMotif for Validation 2
53 - MultivariateMotif with avg smape 9.2:
Model Number: 54 of 132 with model ETS for Validation 2
54 - ETS with avg smape 18.02:
Model Number: 55 of 132 with model MultivariateRegression for Validation 2
55 - MultivariateRegression with avg smape 15.46:
Model Number: 56 of 132 with model GLS for Validation 2
56 - GLS with avg smape 11.92:
Model Number: 57 of 132 with model NVAR for Validation 2
57 - NVAR with avg smape 15.84:
Model Number: 58 of 132 with model NVAR for Validation 2
58 - NVAR with avg smape 11.92:
Model Number: 59 of 132 with model DatepartRegression for Validation 2
59 - DatepartRegression with avg smape 18.88:
Model Number: 60 of 132 with model UnobservedComponents for Validation 2
60 - UnobservedComponents with avg smape 13.23:
Model Number: 61 of 132 with model MultivariateRegression for Validation 2
61 - MultivariateRegression with avg smape 13.17:
Model Number: 62 of 132 with model ARDL for Validation 2
62 - ARDL with avg smape 17.72:
Model Number: 63 of 132 with model ARDL for Validation 2
63 - ARDL with avg smape 15.44:
Model Number: 64 of 132 with model UnivariateMotif for Validation 2
64 - UnivariateMotif with avg smape 17.47:
Model Number: 65 of 132 with model AverageValueNaive for Validation 2
65 - AverageValueNaive with avg smape 21.05:
Model Number: 66 of 132 with model ARDL for Validation 2
66 - ARDL with avg smape 12.78:
Model Number: 67 of 132 with model SectionalMotif for Validation 2
67 - SectionalMotif with avg smape 21.26:
Model Number: 68 of 132 with model MultivariateRegression for Validation 2
68 - MultivariateRegression with avg smape 13.2:
Model Number: 69 of 132 with model WindowRegression for Validation 2
69 - WindowRegression with avg smape 5.1:
Model Number: 70 of 132 with model Theta for Validation 2
70 - Theta with avg smape 15.04:
Model Number: 71 of 132 with model UnivariateMotif for Validation 2
71 - UnivariateMotif with avg smape 20.07:
Model Number: 72 of 132 with model SeasonalNaive for Validation 2
72 - SeasonalNaive with avg smape 15.9:
Model Number: 73 of 132 with model Theta for Validation 2
73 - Theta with avg smape 15.13:
Model Number: 74 of 132 with model MultivariateRegression for Validation 2
74 - MultivariateRegression with avg smape 16.0:
Model Number: 75 of 132 with model Theta for Validation 2
75 - Theta with avg smape 15.13:
```

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Model Number: 76 of 132 with model AverageValueNaive for Validation 2
76 - AverageValueNaive with avg smape 13.18:
Model Number: 77 of 132 with model AverageValueNaive for Validation 2
77 - AverageValueNaive with avg smape 13.18:
Model Number: 78 of 132 with model MultivariateRegression for Validation 2
78 - MultivariateRegression with avg smape 13.62:
Model Number: 79 of 132 with model DatepartRegression for Validation 2

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 300 out of 300 | elapsed:    0.1s finished

79 - DatepartRegression with avg smape 15.08:
Model Number: 80 of 132 with model SectionalMotif for Validation 2
80 - SectionalMotif with avg smape 17.73:
Model Number: 81 of 132 with model LastValueNaive for Validation 2

[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 300 out of 300 | elapsed:    0.0s finished

81 - LastValueNaive with avg smape 14.78:
Model Number: 82 of 132 with model Theta for Validation 2
82 - Theta with avg smape 15.15:
Model Number: 83 of 132 with model LastValueNaive for Validation 2
83 - LastValueNaive with avg smape 14.9:
Model Number: 84 of 132 with model Theta for Validation 2
84 - Theta with avg smape 15.13:
Model Number: 85 of 132 with model Theta for Validation 2
85 - Theta with avg smape 15.13:
Model Number: 86 of 132 with model WindowRegression for Validation 2
86 - WindowRegression with avg smape 8.66:
Model Number: 87 of 132 with model MultivariateMotif for Validation 2
87 - MultivariateMotif with avg smape 16.07:
Model Number: 88 of 132 with model UnobservedComponents for Validation 2

c:\Users\91861\AppData\Local\Programs\Python\Python310\lib\site-
packages\sklearn\svm\_base.py:1206: ConvergenceWarning:

Liblinear failed to converge, increase the number of iterations.


88 - UnobservedComponents with avg smape 16.0:
Model Number: 89 of 132 with model SeasonalNaive for Validation 2
89 - SeasonalNaive with avg smape 12.82:
Model Number: 90 of 132 with model AverageValueNaive for Validation 2
90 - AverageValueNaive with avg smape 13.05:
```

```
Model Number: 91 of 132 with model SeasonalNaive for Validation 2
91 - SeasonalNaive with avg smape 16.01:
Model Number: 92 of 132 with model MultivariateMotif for Validation 2
92 - MultivariateMotif with avg smape 10.76:
Model Number: 93 of 132 with model AverageValueNaive for Validation 2
93 - AverageValueNaive with avg smape 13.64:
Model Number: 94 of 132 with model SeasonalNaive for Validation 2
94 - SeasonalNaive with avg smape 13.98:
Model Number: 95 of 132 with model MultivariateMotif for Validation 2
95 - MultivariateMotif with avg smape 11.11:
Model Number: 96 of 132 with model AverageValueNaive for Validation 2
96 - AverageValueNaive with avg smape 13.54:
Model Number: 97 of 132 with model SeasonalNaive for Validation 2
97 - SeasonalNaive with avg smape 16.89:
Model Number: 98 of 132 with model SeasonalNaive for Validation 2
98 - SeasonalNaive with avg smape 10.6:
Model Number: 99 of 132 with model ZeroesNaive for Validation 2
99 - ZeroesNaive with avg smape 16.01:
Model Number: 100 of 132 with model Theta for Validation 2
100 - Theta with avg smape 8.86:
Model Number: 101 of 132 with model MultivariateMotif for Validation 2
101 - MultivariateMotif with avg smape 10.47:
Model Number: 102 of 132 with model UnivariateMotif for Validation 2
102 - UnivariateMotif with avg smape 20.57:
Model Number: 103 of 132 with model ZeroesNaive for Validation 2
103 - ZeroesNaive with avg smape 20.57:
Model Number: 104 of 132 with model UnivariateMotif for Validation 2
104 - UnivariateMotif with avg smape 19.78:
Model Number: 105 of 132 with model ZeroesNaive for Validation 2
105 - ZeroesNaive with avg smape 16.01:
Model Number: 106 of 132 with model MultivariateRegression for Validation 2
106 - MultivariateRegression with avg smape 11.03:
Model Number: 107 of 132 with model ETS for Validation 2
107 - ETS with avg smape 16.02:
Model Number: 108 of 132 with model UnobservedComponents for Validation 2
108 - UnobservedComponents with avg smape 16.07:
Model Number: 109 of 132 with model GLS for Validation 2
109 - GLS with avg smape 16.02:
Model Number: 110 of 132 with model GLM for Validation 2
110 - GLM with avg smape 16.02:
Model Number: 111 of 132 with model MultivariateMotif for Validation 2
111 - MultivariateMotif with avg smape 16.07:
Model Number: 112 of 132 with model UnivariateMotif for Validation 2
112 - UnivariateMotif with avg smape 16.03:
Model Number: 113 of 132 with model GLS for Validation 2
113 - GLS with avg smape 15.86:
Model Number: 114 of 132 with model GLM for Validation 2
114 - GLM with avg smape 16.01:
```

```
Model Number: 115 of 132 with model SectionalMotif for Validation 2
115 - SectionalMotif with avg smape 16.01:
Model Number: 116 of 132 with model ETS for Validation 2
116 - ETS with avg smape 21.73:
Model Number: 117 of 132 with model ZeroesNaive for Validation 2
117 - ZeroesNaive with avg smape 9.23:
Model Number: 118 of 132 with model GLM for Validation 2
118 - GLM with avg smape 22.38:
Model Number: 119 of 132 with model ZeroesNaive for Validation 2
119 - ZeroesNaive with avg smape 16.02:
Model Number: 120 of 132 with model UnobservedComponents for Validation 2
120 - UnobservedComponents with avg smape 5.68:
Model Number: 121 of 132 with model WindowRegression for Validation 2
121 - WindowRegression with avg smape 16.09:
Model Number: 122 of 132 with model DatepartRegression for Validation 2

[Parallel(n_jobs=-2)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=-2)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=-2)]: Done 300 out of 300 | elapsed:    0.1s finished

122 - DatepartRegression with avg smape 7.02:
Model Number: 123 of 132 with model ZeroesNaive for Validation 2
123 - ZeroesNaive with avg smape 16.28:
Model Number: 124 of 132 with model SectionalMotif for Validation 2
124 - SectionalMotif with avg smape 15.9:
Model Number: 125 of 132 with model SectionalMotif for Validation 2
125 - SectionalMotif with avg smape 81.5:
Model Number: 126 of 132 with model SectionalMotif for Validation 2

[Parallel(n_jobs=15)]: Using backend ThreadingBackend with 15 concurrent
workers.
[Parallel(n_jobs=15)]: Done  20 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 170 tasks      | elapsed:    0.0s
[Parallel(n_jobs=15)]: Done 300 out of 300 | elapsed:    0.0s finished

126 - SectionalMotif with avg smape 16.28:
Model Number: 127 of 132 with model WindowRegression for Validation 2
127 - WindowRegression with avg smape 5.1:
Model Number: 128 of 132 with model UnobservedComponents for Validation 2
128 - UnobservedComponents with avg smape 15.01:
Model Number: 129 of 132 with model GLS for Validation 2
129 - GLS with avg smape 12.24:
Model Number: 130 of 132 with model GLS for Validation 2
130 - GLS with avg smape 9.54:
Model Number: 131 of 132 with model WindowRegression for Validation 2
131 - WindowRegression with avg smape 12.91:
Model Number: 132 of 132 with model SectionalMotif for Validation 2
132 - SectionalMotif with avg smape 24.16:
```

```
                 Close
2022-05-10  297.330943
2022-05-11  288.242662
2022-05-12  292.471359
2022-05-13  306.779484
2022-05-14  307.915296
```