02 arima models

September 29, 2021

1 Univariate ARIMA Models

```
[1]: import warnings
    warnings.filterwarnings('ignore')
[2]: %matplotlib inline
    from tqdm import tqdm
    from itertools import product
    import pandas as pd
    import pandas_datareader.data as web
    import numpy as np
    from numpy.linalg import LinAlgError
    import statsmodels.tsa.api as tsa
    from statsmodels.graphics.tsaplots import plot acf, plot pacf
    from statsmodels.tsa.stattools import acf, q_stat, adfuller
    from scipy.stats import probplot, moment
    from sklearn.metrics import mean_squared_error
    import matplotlib.pyplot as plt
    import seaborn as sns
[3]: sns.set_style('whitegrid')
[4]: def plot_correlogram(x, lags=None, title=None):
        lags = min(10, int(len(x)/5)) if lags is None else lags
        fig, axes = plt.subplots(nrows=2, ncols=2, figsize=(14, 8))
        x.plot(ax=axes[0][0], title='Residuals')
        x.rolling(21).mean().plot(ax=axes[0][0], c='k', lw=1)
        q_p = np.max(q_stat(acf(x, nlags=lags), len(x))[1])
        stats = f'Q-Stat: {np.max(q_p):>8.2f}\nADF: {adfuller(x)[1]:>11.2f}'
        axes[0][0].text(x=.02, y=.85, s=stats, transform=axes[0][0].transAxes)
        probplot(x, plot=axes[0][1])
        mean, var, skew, kurtosis = moment(x, moment=[1, 2, 3, 4])
        s = f'Mean: \{mean:>12.2f\} \nS. \{np.sqrt(var):>16.2f\} \nSkew: \{skew:12.
```

```
axes[0][1].text(x=.02, y=.75, s=s, transform=axes[0][1].transAxes)
plot_acf(x=x, lags=lags, zero=False, ax=axes[1][0])
plot_pacf(x, lags=lags, zero=False, ax=axes[1][1])
axes[1][0].set_xlabel('Lag')
axes[1][1].set_xlabel('Lag')
fig.suptitle(title, fontsize=14)
sns.despine()
fig.tight_layout()
fig.subplots_adjust(top=.9)
```

1.1 Download Series

Load monthly industrial production and daily NASDAQ stock market index:

```
[5]: industrial_production = web.DataReader('IPGMFN', 'fred', '1988', '2017-12').

⇒squeeze().dropna()

nasdaq = web.DataReader('NASDAQCOM', 'fred', '1990', '2017-12-31').squeeze().

⇒dropna()
```

1.1.1 Log Transformation

```
[6]: nasdaq_log = np.log(nasdaq)
industrial_production_log = np.log(industrial_production)
```

1.1.2 Differencing

```
[7]: nasdaq_log_diff = nasdaq_log.diff().dropna()

# seasonal differencing => yoy instantanteous returns
industrial_production_log_diff = industrial_production_log.diff(12).dropna()
```

1.2 Univariate Time Series Models

1.2.1 Autoregressive (AR) Model

Multiple linear-regression models expressed the variable of interest as a linear combination of predictors or input variables. Univariate time series models relate the value of the time series at the point in time of interest to a linear combination of lagged values of the series and possibly past disturbance terms. While exponential smoothing models are based on a description of the trend and seasonality in the data, ARIMA models aim to describe the autocorrelations in the data. ARIMA(p, d, q) models require stationarity and leverage two building blocks: - Autoregressive (AR) terms consisting of p-lagged values of the time series - Moving average (MA) terms that contain q-lagged disturbances

Chapter 8 introduces the ARIMA building blocks, simple autoregressive (AR) and moving average (MA) models, and explains how to combine them in autoregressive moving-average (ARMA) models that may account for series integration as ARIMA models or include exogenous variables as AR(I)MAX models.

Furthermore, we will illustrate how to include seasonal AR and MA terms to extend the toolbox to also include SARMAX models.

1.2.2 ARMA vs ARIMA

The ARMA model of the undifferenced series produces the same result as the ARIMA model of the differenced series.

```
[8]: model1 = tsa.ARMA(endog=nasdaq_log_diff, order=(2,2)).fit()
model2 = tsa.ARIMA(endog=nasdaq_log, order=(2,1,2)).fit()
```

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```
[9]: model1.params.sort_index() == model2.params.sort_index().values
```

```
[9]: ar.L1.NASDAQCOM True
    ar.L2.NASDAQCOM True
    const True
    ma.L1.NASDAQCOM True
    ma.L2.NASDAQCOM True
    dtype: bool
```

1.2.3 Seasonal differencing vs SARIMAX

Seasonal differencing has same effect as using SARIMAX we seasonal order (0,1,0,12).

```
[10]: model1 = tsa.statespace.SARIMAX(industrial_production_log, order=(2,0,2), 

⇒seasonal_order=(0,1,0,12)).fit()

model2 = tsa.statespace.SARIMAX(industrial_production_log_diff, order=(2,0,2), 

⇒seasonal_order=(0,0,0,12)).fit()
```

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/home/stefan/.pyenv/versions/miniconda3-latest/envs/ml4t/lib/python3.8/site-packages/statsmodels/base/model.py:566: ConvergenceWarning: Maximum Likelihood optimization failed to converge. Check mle retvals

warnings.warn("Maximum Likelihood optimization failed to "

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```
[11]: model1.params.to_frame('SARIMAX').join(model2.params.to_frame('diff'))
```

```
[11]: SARIMAX diff
ar.L1 1.765901 1.765978
ar.L2 -0.788175 -0.788255
ma.L1 -0.859266 -0.859608
ma.L2 0.352755 0.353158
sigma2 0.000101 0.000101
```

1.3 Finding the optimal ARMA lags

1.3.1 Run candidate models

We iterate over various (p, q) lag combinations and collect diagnostic statistics to compare the result.

```
except LinAlgError:
        convergence_error += 1
    except ValueError:
        stationarity_error += 1
    forecast, _, _ = model.forecast(steps=1)
    y_pred.append(forecast[0])
    aic.append(model.aic)
    bic.append(model.bic)
result = (pd.DataFrame({'y_true': y_true, 'y_pred': y_pred})
          .replace(np.inf, np.nan)
          .dropna())
rmse = np.sqrt(mean_squared_error(
    y_true=result.y_true, y_pred=result.y_pred))
results[(p, q)] = [rmse,
                   np.mean(aic),
                   np.mean(bic),
                   convergence_error,
                   stationarity_error]
```

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```
Traceback (most recent call last)
KeyboardInterrupt
<ipython-input-12-42dd50b45734> in <module>
                      train_set = industrial_production_log_diff.iloc[T-train_siz]:
ςT]
     14
---> 15
                           model = tsa.ARMA(endog=train set, order=(p, q)).fit()
     16
                      except LinAlgError:
     17
                           convergence error += 1
~/.pyenv/versions/miniconda3-latest/envs/ml4t/lib/python3.8/site-packages/
→statsmodels/tsa/arima_model.py in fit(self, start_params, trend, method, whereas transparams, solver, maxiter, full_output, disp, callback, start_ar_lags, whereas transparams is solver.
 →**kwargs)
   1025
                      kwargs.setdefault('m', 12)
   1026
                      kwargs.setdefault('approx_grad', True)
-> 1027
                 mlefit = super(ARMA, self).fit(start_params, method=solver,
   1028
                                                     maxiter=maxiter,
   1029
                                                     full_output=full_output,_
 →disp=disp,
~/.pyenv/versions/miniconda3-latest/envs/ml4t/lib/python3.8/site-packages/
→statsmodels/base/model.py in fit(self, start_params, method, maxiter, ___
 →full_output, disp, fargs, callback, retall, skip_hessian, **kwargs)
                  warn_convergence = kwargs.pop('warn_convergence', True)
    517
```

```
optimizer = Optimizer()
        518
--> 519
                                xopt, retvals, optim_settings = optimizer._fit(f, score, _
 ⇔start_params,
        520
                                                                                                                                   fargs, kwargs,
        521
                                                                                                                                   hessian=hess,
~/.pyenv/versions/miniconda3-latest/envs/ml4t/lib/python3.8/site-packages/
 →statsmodels/base/optimizer.py in _fit(self, objective, gradient, start_params ___
 →fargs, kwargs, hessian, method, maxiter, full output, disp, callback, retall)
        222
        223
                                func = fit funcs[method]
--> 224
                                xopt, retvals = func(objective, gradient, start params, fargs,
 →kwargs,
                                                                          disp=disp, maxiter=maxiter,
 →callback=callback,
        226
                                                                          retall=retall, full_output=full_output,
~/.pyenv/versions/miniconda3-latest/envs/ml4t/lib/python3.8/site-packages/
 →statsmodels/base/optimizer.py in _fit_lbfgs(f, score, start_params, fargs, ___
 →kwargs, disp, maxiter, callback, retall, full output, hess)
        627
                                func = f
        628
--> 629
                        retvals = optimize.fmin l bfgs_b(func, start_params, maxiter=maxite,
        630
                                                                                              callback=callback, args=fargs,
        631
                                                                                              bounds=bounds, disp=disp,
~/.pyenv/versions/miniconda3-latest/envs/ml4t/lib/python3.8/site-packages/scipy
 →optimize/lbfgsb.py in fmin 1 bfgs b(func, x0, fprime, args, approx grad,
 →bounds, m, factr, pgtol, epsilon, iprint, maxfun, maxiter, disp, callback, u
 →maxls)
        195
                                         'maxls': maxls}
        196
--> 197
                        res = _minimize_lbfgsb(fun, x0, args=args, jac=jac, bounds=bounds,
        198
                                                                         **opts)
        199
                        d = {'grad': res['jac'],
~/.pyenv/versions/miniconda3-latest/envs/ml4t/lib/python3.8/site-packages/scipy
 →optimize/lbfgsb.py in _minimize_lbfgsb(fun, x0, args, jac, bounds, disp, waxcor, ftol, gtol, eps, maxfun, maxiter, iprint, callback, maxls, waxls, 
 →finite_diff_rel_step, **unknown_options)
                                         # until the completion of the current minimization iteration.
        358
        359
                                         # Overwrite f and g:
                                         f, g = func_and_grad(x)
--> 360
        361
                                 elif task_str.startswith(b'NEW_X'):
        362
                                         # new iteration
~/.pyenv/versions/miniconda3-latest/envs/ml4t/lib/python3.8/site-packages/scipy
 →optimize/differentiable functions.py in fun and grad(self, x)
```

```
self._update_x_impl(x)
          260
                      self._update_fun()
      --> 261
                      self._update_grad()
          262
                      return self.f, self.g
          263
      ~/.pyenv/versions/miniconda3-latest/envs/ml4t/lib/python3.8/site-packages/scipy
      →optimize/_differentiable_functions.py in _update_grad(self)
                  def update grad(self):
          230
                      if not self.g_updated:
      --> 231
                          self._update_grad_impl()
                          self.g_updated = True
          232
          233
      ~/.pyenv/versions/miniconda3-latest/envs/ml4t/lib/python3.8/site-packages/scipy
      →optimize/_differentiable_functions.py in update_grad()
          149
                              self._update_fun()
          150
                              self.ngev += 1
      --> 151
                              self.g = approx_derivative(fun_wrapped, self.x, f0=self
      ⇔f,
                                                          **finite_diff_options)
          152
          153
      ~/.pyenv/versions/miniconda3-latest/envs/ml4t/lib/python3.8/site-packages/scipy
      →optimize/ numdiff.py in approx derivative (fun, x0, method, rel_step, abs_step_u
      →f0, bounds, sparsity, as_linear_operator, args, kwargs)
          463
                      else:
          464
                          # user specifies an absolute step
                          sign_x0 = (x0 >= 0).astype(float) * 2 - 1
      --> 465
                          h = abs step
          466
          467
     KeyboardInterrupt:
[]: arma results = pd.DataFrame(results).T
     arma results.columns = ['RMSE', 'AIC', 'BIC', 'convergence', 'stationarity']
     arma results.index.names = ['p', 'q']
     arma results.info()
[]: with pd.HDFStore('arima.h5') as store:
         store.put('arma', arma_results)
    We aim to minimize both RMSE and BIC:
[]: arma results.nsmallest(5, columns=['RMSE'])
[]: arma results.nsmallest(5, columns=['BIC'])
```

259

```
[]: arma_results.rank().loc[:, ['RMSE', 'BIC']].mean(1).nsmallest(5)
```

1.3.2 Estimating the best ARMA Model

ARMA(4,0) and ARMA(4,1) are close, so we chose the more parsimonious (4,0) configuration:

```
[]: best_p, best_q = arma_results.rank().loc[:, ['RMSE', 'BIC']].mean(1).idxmin()
```

1.3.3 Check Residual Correlogram

```
[]: plot_correlogram(best_arma_model.resid)
```

1.4 SARIMAX

```
[]: sarimax_model = tsa.SARIMAX(endog=industrial_production_log_diff.dropna().

→values,

order=(2, 0, 2),

seasonal_order=(1, 0, 1, 12)).fit(start_params=[0, 0, 0, 0, 0, 0])

→0, 0, 1])
```

```
[]: print(sarimax_model.summary())
```

```
[]: plot_correlogram(pd.Series(sarimax_model.resid))
```

We will build a SARIMAX model for monthly data on an industrial production time series for the 1988-2017 period. As illustrated in the first section on analytical tools, the data has been log-transformed, and we are using seasonal (lag-12) differences. We estimate the model for a range of both ordinary and conventional AR and MA parameters using a rolling window of 10 years of training data, and evaluate the RMSE of the 1-step-ahead forecast.

1.4.1 Finding the optimal number of lags

This takes a while...

```
[]: l3 = list(range(3))
    14 = list(range(4))
    params = [t for t in product(14, 14, 13, 13) if t[0] > 0 and t[1] > 0]
    len(params)

[]: train_size = 120 # 10 years of training data
    results = {}
    test_set = industrial_production_log_diff.iloc[train_size:]
```

```
for p1, q1, p2, q2 in tqdm(params):
    preds = test_set.copy().to_frame('y_true').assign(y_pred=np.nan)
    aic, bic = [], []
    if p1 == 0 and q1 == 0:
        continue
    convergence_error = stationarity_error = 0
    y_pred = []
    for i, T in enumerate(range(train_size,__
→len(industrial_production_log_diff))):
        train_set = industrial_production_log_diff.iloc[T-train_size:T]
        try:
            with warnings.catch_warnings():
                warnings.filterwarnings("ignore")
                model = tsa.SARIMAX(endog=train_set.values,
                                order=(p1, 0, q1),
                                seasonal_order=(p2, 0, q2, 12)).fit(disp=0)
        except LinAlgError:
            convergence_error += 1
        except ValueError:
            stationarity_error += 1
        preds.iloc[i, 1] = model.forecast(steps=1)[0]
        aic.append(model.aic)
        bic.append(model.bic)
    preds.dropna(inplace=True)
    mse = mean_squared_error(preds.y_true, preds.y_pred)
    results[(p1, q1, p2, q2)] = [np.sqrt(mse),
                                      preds.y_true.sub(preds.y_pred).pow(2).
⇒std(),
                                      np.mean(aic),
                                      np.std(aic),
                                      np.mean(bic),
                                      np.std(bic),
                                      convergence_error,
                                      stationarity_error]
```

```
1.4.2 Compare model metrics
[]: sarimax results = pd.DataFrame(results).T
     sarimax_results.columns = ['RMSE', 'RMSE_std', 'AIC', 'AIC_std', 'BIC', |
     →'BIC_std', 'convergence', 'stationarity']
     sarimax_results['CV'] = sarimax_results.RMSE_std.div(sarimax_results.RMSE)
     sarimax_results.index.names = ['p1', 'q1', 'p2', 'q2']
     sarimax_results.info()
[]: with pd.HDFStore('arima.h5') as store:
         store.put('sarimax', sarimax_results)
[]: with pd.HDFStore('arima.h5') as store:
         sarimax_results = store.get('sarimax')
[]: sarimax_results.nsmallest(5, columns='RMSE')
    We also collect the AIC and BIC criteria that show a very high rank correlation coefficient of 0.94,
    with BIC favoring models with slightly fewer parameters than AIC. The best five models by RMSE
[]: sarimax_results[['RMSE', 'AIC', 'BIC']].sort_values('RMSE').head()
[]: sarimax_results[['RMSE', 'AIC', 'BIC']].corr('spearman')
     sns.jointplot(y='RMSE', x='BIC', data=sarimax_results[['RMSE', 'BIC']].rank());
[]:
[]: sarimax_results[(sarimax_results.RMSE < sarimax_results.RMSE.quantile(.05)) &
                      (sarimax_results.BIC < sarimax_results.BIC.quantile(.1))].</pre>

¬sort_values('RMSE')
    1.4.3 Train best model
[]: p1, q1, p2, q2 = 2, 3, 1, 2
[]: best_model = tsa.SARIMAX(endog=industrial_production_log_diff.values,_
```

1.4.4 Check Residual Correlogram