

04_optimizing_a_NN_architecture_for_trading

September 29, 2021

1 Train a Deep NN to predict Asset Price returns

In practice, we need to explore variations of the design options outlined above because we can rarely be sure from the outset which network architecture best suits the data.

In this section, we will explore various options to build a simple feedforward Neural Network to predict asset price returns for a one-day horizon.

1.1 Imports & Settings

```
[1]: import warnings
      warnings.filterwarnings('ignore')
```

```
[2]: %matplotlib inline

import os, sys
from ast import literal_eval as make_tuple
from time import time
from pathlib import Path
from itertools import product
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import statsmodels.api as sm
from scipy.stats import spearmanr
import seaborn as sns

from sklearn.preprocessing import StandardScaler

import tensorflow as tf
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Dense, Dropout, Activation
```

```
[3]: gpu_devices = tf.config.experimental.list_physical_devices('GPU')
      if gpu_devices:
          print('Using GPU')
          tf.config.experimental.set_memory_growth(gpu_devices[0], True)
      else:
```

```
print('Using CPU')
```

Using CPU

```
[4]: sys.path.insert(1, os.path.join(sys.path[0], '..'))
     from utils import MultipleTimeSeriesCV, format_time
```

```
[5]: np.random.seed(42)
     sns.set_style('whitegrid')
     idx = pd.IndexSlice
```

```
[6]: DATA_STORE = '../data/assets.h5'
```

```
[7]: results_path = Path('results')
     if not results_path.exists():
         results_path.mkdir()

     checkpoint_path = results_path / 'logs'
```

1.2 Create a stock return series to predict asset price moves

To develop our trading strategy, we use the daily stock returns for some 995 US stocks for the eight year period from 2010 to 2017, and the features developed in Chapter 12 that include volatility and momentum factors as well as lagged returns with cross-sectional and sectoral rankings.

```
[8]: data = pd.read_hdf('../12_gradient_boosting_machines/data.h5', 'model_data').
     ↪dropna().sort_index()
```

```
[9]: data.info(show_counts=True)
```

```
<class 'pandas.core.frame.DataFrame'>
MultiIndex: 1911344 entries, ('A', Timestamp('2010-04-06 00:00:00')) to ('ZION',
Timestamp('2017-11-29 00:00:00'))
Data columns (total 34 columns):
#   Column                Non-Null Count  Dtype
---  -
0   dollar_vol            1911344 non-null  float64
1   dollar_vol_rank       1911344 non-null  float64
2   rsi                   1911344 non-null  float64
3   bb_high               1911344 non-null  float64
4   bb_low               1911344 non-null  float64
5   NATR                 1911344 non-null  float64
6   ATR                  1911344 non-null  float64
7   PPO                  1911344 non-null  float64
8   MACD                 1911344 non-null  float64
9   sector                1911344 non-null  int64
10  r01                   1911344 non-null  float64
11  r05                   1911344 non-null  float64
```

```

12  r10                1911344 non-null float64
13  r21                1911344 non-null float64
14  r42                1911344 non-null float64
15  r63                1911344 non-null float64
16  r01dec             1911344 non-null float64
17  r05dec             1911344 non-null float64
18  r10dec             1911344 non-null float64
19  r21dec             1911344 non-null float64
20  r42dec             1911344 non-null float64
21  r63dec             1911344 non-null float64
22  r01q_sector        1911344 non-null float64
23  r05q_sector        1911344 non-null float64
24  r10q_sector        1911344 non-null float64
25  r21q_sector        1911344 non-null float64
26  r42q_sector        1911344 non-null float64
27  r63q_sector        1911344 non-null float64
28  r01_fwd            1911344 non-null float64
29  r05_fwd            1911344 non-null float64
30  r21_fwd            1911344 non-null float64
31  year                1911344 non-null int64
32  month              1911344 non-null int64
33  weekday            1911344 non-null int64

```

dtypes: float64(30), int64(4)

memory usage: 503.9+ MB

```
[10]: outcomes = data.filter(like='fwd').columns.tolist()
```

```
[11]: lookahead = 1
outcome= f'r{lookahead:02}_fwd'
```

```
[12]: X_cv = data.loc[idx[:, : '2017'], :].drop(outcomes, axis=1)
y_cv = data.loc[idx[:, : '2017'], outcome]
```

```
[13]: len(X_cv.index.get_level_values('symbol').unique())
```

```
[13]: 995
```

```
[14]: X_cv.info(null_counts=True)
```

```

<class 'pandas.core.frame.DataFrame'>
MultiIndex: 1911344 entries, ('A', Timestamp('2010-04-06 00:00:00')) to ('ZION',
Timestamp('2017-11-29 00:00:00'))
Data columns (total 31 columns):
#   Column                Non-Null Count  Dtype
---  -
0   dollar_vol             1911344 non-null float64
1   dollar_vol_rank        1911344 non-null float64
2   rsi                    1911344 non-null float64

```

| | | | | |
|----|-------------|---------|----------|---------|
| 3 | bb_high | 1911344 | non-null | float64 |
| 4 | bb_low | 1911344 | non-null | float64 |
| 5 | NATR | 1911344 | non-null | float64 |
| 6 | ATR | 1911344 | non-null | float64 |
| 7 | PPO | 1911344 | non-null | float64 |
| 8 | MACD | 1911344 | non-null | float64 |
| 9 | sector | 1911344 | non-null | int64 |
| 10 | r01 | 1911344 | non-null | float64 |
| 11 | r05 | 1911344 | non-null | float64 |
| 12 | r10 | 1911344 | non-null | float64 |
| 13 | r21 | 1911344 | non-null | float64 |
| 14 | r42 | 1911344 | non-null | float64 |
| 15 | r63 | 1911344 | non-null | float64 |
| 16 | r01dec | 1911344 | non-null | float64 |
| 17 | r05dec | 1911344 | non-null | float64 |
| 18 | r10dec | 1911344 | non-null | float64 |
| 19 | r21dec | 1911344 | non-null | float64 |
| 20 | r42dec | 1911344 | non-null | float64 |
| 21 | r63dec | 1911344 | non-null | float64 |
| 22 | r01q_sector | 1911344 | non-null | float64 |
| 23 | r05q_sector | 1911344 | non-null | float64 |
| 24 | r10q_sector | 1911344 | non-null | float64 |
| 25 | r21q_sector | 1911344 | non-null | float64 |
| 26 | r42q_sector | 1911344 | non-null | float64 |
| 27 | r63q_sector | 1911344 | non-null | float64 |
| 28 | year | 1911344 | non-null | int64 |
| 29 | month | 1911344 | non-null | int64 |
| 30 | weekday | 1911344 | non-null | int64 |

dtypes: float64(27), int64(4)

memory usage: 460.1+ MB

1.3 Automate model generation

The following `make_model` function illustrates how to flexibly define various architectural elements for the search process. The `dense_layers` argument defines both the depth and width of the network as a list of integers. We also use dropout for regularization, expressed as a float in the range `[0, 1]` to define the probability that a given unit will be excluded from a training iteration.

```
[15]: def make_model(dense_layers, activation, dropout):
        '''Creates a multi-layer perceptron model

        dense_layers: List of layer sizes; one number per layer
        '''

        model = Sequential()
        for i, layer_size in enumerate(dense_layers, 1):
            if i == 1:
                model.add(Dense(layer_size, input_dim=X_cv.shape[1]))
```

```

        model.add(Activation(activation))
    else:
        model.add(Dense(layer_size))
        model.add(Activation(activation))
model.add(Dropout(dropout))
model.add(Dense(1))

model.compile(loss='mean_squared_error',
              optimizer='Adam')

return model

```

1.4 Cross-validate multiple configurations with TensorFlow

1.4.1 Train-Test Split

We split the data into a training set for cross-validation, and keep the last 12 months with data as holdout test:

```
[16]: n_splits = 12
      train_period_length=21 * 12 * 4
      test_period_length=21 * 3

```

```
[17]: cv = MultipleTimeSeriesCV(n_splits=n_splits,
                                train_period_length=train_period_length,
                                test_period_length=test_period_length,
                                lookahead=lookahead)

```

1.4.2 Define CV Parameters

Now we just need to define our Keras classifier using the `make_model` function, set cross-validation (see chapter 6 on The Machine Learning Process and following for the `OneStepTimeSeriesSplit`), and the parameters that we would like to explore.

We pick several one- and two-layer configurations, relu and tanh activation functions, and different dropout rates. We could also try out different optimizers (but did not run this experiment to limit what is already a computationally intensive effort):

```
[18]: dense_layer_opts = [(16, 8), (32, 16), (32, 32), (64, 32)]
      activation_opts = ['tanh']
      dropout_opts = [0, .1, .2]

```

```
[19]: param_grid = list(product(dense_layer_opts, activation_opts, dropout_opts))
      np.random.shuffle(param_grid)

```

```
[20]: len(param_grid)

```

```
[20]: 12

```

To trigger the parameter search, we instantiate a GridSearchCV object, define the fit_params that will be passed to the Keras model's fit method, and provide the training data to the GridSearchCV fit method:

```
[21]: def get_train_valid_data(X, y, train_idx, test_idx):
        x_train, y_train = X.iloc[train_idx, :], y.iloc[train_idx]
        x_val, y_val = X.iloc[test_idx, :], y.iloc[test_idx]
        return x_train, y_train, x_val, y_val

[22]: ic = []
scaler = StandardScaler()
for params in param_grid:
    dense_layers, activation, dropout = params
    for batch_size in [64, 256]:
        print(dense_layers, activation, dropout, batch_size)
        checkpoint_dir = checkpoint_path / str(dense_layers) / activation /
        ↪str(dropout) / str(batch_size)
        if not checkpoint_dir.exists():
            checkpoint_dir.mkdir(parents=True, exist_ok=True)
        start = time()
        for fold, (train_idx, test_idx) in enumerate(cv.split(X_cv)):
            # get train & validation data
            x_train, y_train, x_val, y_val = get_train_valid_data(X_cv, y_cv,
            ↪train_idx, test_idx)

            # scale features
            x_train = scaler.fit_transform(x_train)
            x_val = scaler.transform(x_val)

            # set up dataframes to log results
            preds = y_val.to_frame('actual')
            r = pd.DataFrame(index=y_val.groupby(level='date').size().index)

            # create model based on validation parameters
            model = make_model(dense_layers, activation, dropout)

            # cross-validate for 20 epochs
            for epoch in range(20):
                model.fit(x_train,
                           y_train,
                           batch_size=batch_size,
                           epochs=1,
                           verbose=0,
                           shuffle=True,
                           validation_data=(x_val, y_val))
                model.save_weights((checkpoint_dir / f'ckpt_{fold}_{epoch}').
                ↪as_posix())
```

```

        preds[epoch] = model.predict(x_val).squeeze()
        r[epoch] = preds.groupby(level='date').apply(lambda x:
→spearmanr(x.actual, x[epoch])[0]).to_frame(epoch)
        print(format_time(time()-start), f'{fold + 1:02d} | {epoch + 1:
→02d} | {r[epoch].mean():7.4f} | {r[epoch].median():7.4f}')
        ic.append(r.assign(dense_layers=str(dense_layers),
                            activation=activation,
                            dropout=dropout,
                            batch_size=batch_size,
                            fold=fold))

t = time()-start
pd.concat(ic).to_hdf(results_path / 'scores.h5', 'ic_by_day')

```

```

(64, 32) tanh 0.1 64
00:00:10 01 | 01 | -0.0051 | 0.0013
00:00:18 01 | 02 | 0.0002 | -0.0062
00:00:26 01 | 03 | 0.0110 | -0.0003
00:00:34 01 | 04 | 0.0144 | 0.0097
00:00:42 01 | 05 | 0.0070 | 0.0061
00:00:50 01 | 06 | 0.0289 | 0.0227
00:00:59 01 | 07 | 0.0156 | 0.0342
00:01:07 01 | 08 | 0.0090 | 0.0127
00:01:15 01 | 09 | 0.0084 | 0.0096
00:01:23 01 | 10 | 0.0172 | 0.0296
00:01:31 01 | 11 | 0.0165 | 0.0217
00:01:39 01 | 12 | 0.0016 | 0.0086
00:01:47 01 | 13 | 0.0191 | 0.0344
00:01:55 01 | 14 | 0.0088 | 0.0064
00:02:03 01 | 15 | 0.0058 | 0.0121
00:02:10 01 | 16 | 0.0203 | 0.0227
00:02:18 01 | 17 | 0.0220 | 0.0177
00:02:26 01 | 18 | 0.0140 | 0.0083
00:02:34 01 | 19 | -0.0011 | 0.0009
00:02:41 01 | 20 | 0.0048 | 0.0015
00:02:50 02 | 01 | 0.0008 | -0.0016
00:02:58 02 | 02 | -0.0116 | -0.0011
00:03:06 02 | 03 | 0.0050 | 0.0096
00:03:14 02 | 04 | -0.0017 | 0.0076
00:03:22 02 | 05 | -0.0000 | -0.0086
00:03:30 02 | 06 | 0.0187 | 0.0401
00:03:39 02 | 07 | -0.0055 | 0.0081
00:03:48 02 | 08 | 0.0009 | 0.0016
00:03:57 02 | 09 | 0.0085 | 0.0039
00:04:05 02 | 10 | -0.0056 | 0.0070
00:04:13 02 | 11 | 0.0095 | 0.0083
00:04:21 02 | 12 | 0.0073 | -0.0036

```

| | | | | | | | |
|----------|----|--|----|--|---------|--|---------|
| 00:04:29 | 02 | | 13 | | 0.0066 | | 0.0119 |
| 00:04:38 | 02 | | 14 | | -0.0019 | | 0.0046 |
| 00:04:46 | 02 | | 15 | | -0.0227 | | -0.0106 |
| 00:04:54 | 02 | | 16 | | 0.0030 | | 0.0049 |
| 00:05:03 | 02 | | 17 | | -0.0115 | | 0.0013 |
| 00:05:11 | 02 | | 18 | | -0.0062 | | -0.0058 |
| 00:05:19 | 02 | | 19 | | 0.0136 | | 0.0137 |
| 00:05:28 | 02 | | 20 | | 0.0096 | | -0.0055 |
| 00:05:37 | 03 | | 01 | | 0.0217 | | 0.0118 |
| 00:05:45 | 03 | | 02 | | 0.0093 | | 0.0221 |
| 00:05:54 | 03 | | 03 | | 0.0027 | | -0.0191 |
| 00:06:02 | 03 | | 04 | | 0.0124 | | 0.0063 |
| 00:06:10 | 03 | | 05 | | 0.0031 | | -0.0039 |
| 00:06:18 | 03 | | 06 | | -0.0156 | | -0.0395 |
| 00:06:27 | 03 | | 07 | | 0.0055 | | -0.0013 |
| 00:06:35 | 03 | | 08 | | 0.0029 | | -0.0028 |
| 00:06:43 | 03 | | 09 | | 0.0149 | | 0.0163 |
| 00:06:52 | 03 | | 10 | | -0.0103 | | -0.0060 |
| 00:07:00 | 03 | | 11 | | -0.0265 | | -0.0366 |
| 00:07:09 | 03 | | 12 | | -0.0069 | | -0.0074 |
| 00:07:17 | 03 | | 13 | | -0.0134 | | -0.0183 |
| 00:07:26 | 03 | | 14 | | 0.0097 | | -0.0067 |
| 00:07:34 | 03 | | 15 | | -0.0076 | | -0.0049 |
| 00:07:43 | 03 | | 16 | | -0.0045 | | -0.0078 |
| 00:07:52 | 03 | | 17 | | 0.0106 | | 0.0109 |
| 00:08:00 | 03 | | 18 | | -0.0216 | | -0.0197 |
| 00:08:09 | 03 | | 19 | | -0.0024 | | 0.0017 |
| 00:08:17 | 03 | | 20 | | -0.0069 | | 0.0007 |
| 00:08:27 | 04 | | 01 | | -0.0329 | | -0.0321 |
| 00:08:36 | 04 | | 02 | | -0.0085 | | -0.0062 |
| 00:08:44 | 04 | | 03 | | 0.0070 | | 0.0038 |
| 00:08:53 | 04 | | 04 | | -0.0123 | | -0.0092 |
| 00:09:01 | 04 | | 05 | | 0.0141 | | 0.0021 |
| 00:09:10 | 04 | | 06 | | 0.0397 | | 0.0368 |
| 00:09:19 | 04 | | 07 | | 0.0160 | | 0.0159 |
| 00:09:27 | 04 | | 08 | | -0.0166 | | -0.0049 |
| 00:09:36 | 04 | | 09 | | 0.0055 | | 0.0045 |
| 00:09:45 | 04 | | 10 | | -0.0035 | | -0.0133 |
| 00:09:54 | 04 | | 11 | | 0.0236 | | 0.0080 |
| 00:10:04 | 04 | | 12 | | -0.0068 | | -0.0152 |
| 00:10:13 | 04 | | 13 | | 0.0244 | | 0.0329 |
| 00:10:21 | 04 | | 14 | | 0.0323 | | 0.0091 |
| 00:10:30 | 04 | | 15 | | 0.0189 | | 0.0187 |
| 00:10:39 | 04 | | 16 | | 0.0270 | | 0.0115 |
| 00:10:47 | 04 | | 17 | | -0.0091 | | -0.0087 |
| 00:10:56 | 04 | | 18 | | -0.0217 | | -0.0162 |
| 00:11:04 | 04 | | 19 | | -0.0476 | | -0.0535 |
| 00:11:13 | 04 | | 20 | | 0.0248 | | 0.0033 |

| | | | | | | | |
|----------|----|--|----|--|---------|--|---------|
| 00:11:23 | 05 | | 01 | | 0.0176 | | 0.0181 |
| 00:11:31 | 05 | | 02 | | -0.0133 | | -0.0183 |
| 00:11:40 | 05 | | 03 | | -0.0115 | | -0.0144 |
| 00:11:48 | 05 | | 04 | | 0.0149 | | 0.0123 |
| 00:11:57 | 05 | | 05 | | 0.0087 | | -0.0025 |
| 00:12:06 | 05 | | 06 | | 0.0086 | | 0.0118 |
| 00:12:14 | 05 | | 07 | | -0.0032 | | 0.0227 |
| 00:12:23 | 05 | | 08 | | 0.0021 | | 0.0031 |
| 00:12:31 | 05 | | 09 | | -0.0196 | | -0.0109 |
| 00:12:40 | 05 | | 10 | | 0.0011 | | 0.0049 |
| 00:12:49 | 05 | | 11 | | -0.0096 | | -0.0101 |
| 00:12:57 | 05 | | 12 | | -0.0137 | | -0.0151 |
| 00:13:06 | 05 | | 13 | | 0.0036 | | -0.0083 |
| 00:13:14 | 05 | | 14 | | 0.0038 | | 0.0103 |
| 00:13:23 | 05 | | 15 | | -0.0090 | | -0.0090 |
| 00:13:32 | 05 | | 16 | | -0.0110 | | -0.0237 |
| 00:13:41 | 05 | | 17 | | -0.0170 | | -0.0163 |
| 00:13:51 | 05 | | 18 | | -0.0208 | | -0.0472 |
| 00:14:00 | 05 | | 19 | | -0.0158 | | -0.0416 |
| 00:14:09 | 05 | | 20 | | 0.0097 | | 0.0196 |
| 00:14:21 | 06 | | 01 | | 0.0160 | | 0.0209 |
| 00:14:32 | 06 | | 02 | | 0.0311 | | 0.0189 |
| 00:14:42 | 06 | | 03 | | 0.0388 | | 0.0232 |
| 00:14:53 | 06 | | 04 | | 0.0287 | | 0.0140 |
| 00:15:04 | 06 | | 05 | | 0.0378 | | 0.0338 |
| 00:15:14 | 06 | | 06 | | 0.0268 | | 0.0211 |
| 00:15:24 | 06 | | 07 | | 0.0351 | | 0.0266 |
| 00:15:34 | 06 | | 08 | | 0.0492 | | 0.0299 |
| 00:15:45 | 06 | | 09 | | 0.0553 | | 0.0358 |
| 00:15:55 | 06 | | 10 | | 0.0231 | | 0.0139 |
| 00:16:04 | 06 | | 11 | | 0.0509 | | 0.0549 |
| 00:16:14 | 06 | | 12 | | 0.0290 | | 0.0130 |
| 00:16:22 | 06 | | 13 | | 0.0461 | | 0.0541 |
| 00:16:30 | 06 | | 14 | | 0.0447 | | 0.0471 |
| 00:16:39 | 06 | | 15 | | 0.0285 | | 0.0269 |
| 00:16:47 | 06 | | 16 | | 0.0316 | | 0.0406 |
| 00:16:55 | 06 | | 17 | | 0.0375 | | 0.0297 |
| 00:17:04 | 06 | | 18 | | 0.0189 | | 0.0198 |
| 00:17:12 | 06 | | 19 | | 0.0335 | | 0.0258 |
| 00:17:20 | 06 | | 20 | | 0.0124 | | -0.0001 |
| 00:17:30 | 07 | | 01 | | -0.0086 | | -0.0051 |
| 00:17:38 | 07 | | 02 | | -0.0330 | | -0.0368 |
| 00:17:47 | 07 | | 03 | | -0.0102 | | -0.0093 |
| 00:17:56 | 07 | | 04 | | 0.0154 | | 0.0268 |
| 00:18:04 | 07 | | 05 | | 0.0167 | | 0.0251 |
| 00:18:13 | 07 | | 06 | | 0.0351 | | 0.0209 |
| 00:18:22 | 07 | | 07 | | 0.0137 | | 0.0346 |
| 00:18:31 | 07 | | 08 | | 0.0083 | | 0.0199 |

| | | | | | | | |
|----------|----|--|----|--|---------|--|---------|
| 00:18:40 | 07 | | 09 | | 0.0123 | | 0.0327 |
| 00:18:50 | 07 | | 10 | | 0.0364 | | 0.0644 |
| 00:19:00 | 07 | | 11 | | 0.0114 | | 0.0116 |
| 00:19:10 | 07 | | 12 | | 0.0249 | | 0.0406 |
| 00:19:19 | 07 | | 13 | | 0.0299 | | 0.0380 |
| 00:19:28 | 07 | | 14 | | 0.0158 | | 0.0409 |
| 00:19:37 | 07 | | 15 | | 0.0211 | | 0.0420 |
| 00:19:46 | 07 | | 16 | | 0.0051 | | 0.0080 |
| 00:19:55 | 07 | | 17 | | 0.0242 | | 0.0081 |
| 00:20:03 | 07 | | 18 | | -0.0091 | | 0.0219 |
| 00:20:11 | 07 | | 19 | | 0.0396 | | 0.0253 |
| 00:20:19 | 07 | | 20 | | 0.0252 | | 0.0255 |
| 00:20:28 | 08 | | 01 | | 0.0348 | | 0.0529 |
| 00:20:36 | 08 | | 02 | | -0.0048 | | -0.0090 |
| 00:20:44 | 08 | | 03 | | 0.0302 | | 0.0346 |
| 00:20:52 | 08 | | 04 | | 0.0105 | | 0.0146 |
| 00:21:01 | 08 | | 05 | | 0.0065 | | 0.0023 |
| 00:21:09 | 08 | | 06 | | 0.0241 | | 0.0294 |
| 00:21:16 | 08 | | 07 | | 0.0250 | | 0.0208 |
| 00:21:24 | 08 | | 08 | | 0.0042 | | 0.0219 |
| 00:21:32 | 08 | | 09 | | 0.0050 | | -0.0004 |
| 00:21:40 | 08 | | 10 | | 0.0101 | | 0.0002 |
| 00:21:48 | 08 | | 11 | | 0.0219 | | 0.0306 |
| 00:21:56 | 08 | | 12 | | 0.0137 | | 0.0259 |
| 00:22:04 | 08 | | 13 | | 0.0141 | | 0.0153 |
| 00:22:13 | 08 | | 14 | | 0.0269 | | 0.0201 |
| 00:22:21 | 08 | | 15 | | 0.0081 | | -0.0028 |
| 00:22:29 | 08 | | 16 | | 0.0133 | | 0.0099 |
| 00:22:37 | 08 | | 17 | | 0.0124 | | 0.0181 |
| 00:22:46 | 08 | | 18 | | 0.0182 | | 0.0367 |
| 00:22:54 | 08 | | 19 | | 0.0112 | | 0.0293 |
| 00:23:01 | 08 | | 20 | | 0.0403 | | 0.0490 |
| 00:23:11 | 09 | | 01 | | -0.0044 | | -0.0233 |
| 00:23:19 | 09 | | 02 | | 0.0210 | | 0.0274 |
| 00:23:27 | 09 | | 03 | | 0.0336 | | 0.0255 |
| 00:23:35 | 09 | | 04 | | 0.0127 | | 0.0014 |
| 00:23:43 | 09 | | 05 | | 0.0193 | | 0.0180 |
| 00:23:51 | 09 | | 06 | | 0.0131 | | 0.0102 |
| 00:23:59 | 09 | | 07 | | 0.0206 | | 0.0308 |
| 00:24:07 | 09 | | 08 | | 0.0191 | | 0.0124 |
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| 00:32:54 | 12 | | 13 | | 0.0026 | | 0.0058 |
| 00:33:02 | 12 | | 14 | | 0.0100 | | 0.0128 |
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| 00:33:42 | 12 | | 19 | | -0.0097 | | -0.0171 |
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| (64, 32) tanh 0.1 256 | | | | | | | |
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| (64, 32) tanh 0 64 | | | | | | | |
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| 00:09:49 | 04 | | 16 | | -0.0497 | | -0.0411 |
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| 00:17:56 | 08 | | 02 | | 0.0019 | | -0.0171 |
| 00:18:04 | 08 | | 03 | | 0.0109 | | 0.0008 |
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| 00:18:33 | 08 | | 07 | | 0.0112 | | 0.0203 |
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| 00:18:48 | 08 | | 09 | | 0.0072 | | 0.0030 |
| 00:18:55 | 08 | | 10 | | 0.0210 | | 0.0099 |
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| 00:19:17 | 08 | | 13 | | 0.0046 | | 0.0053 |
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| 00:23:43 | 10 | | 09 | | -0.0052 | | -0.0046 |
| 00:23:50 | 10 | | 10 | | -0.0053 | | -0.0111 |
| 00:23:57 | 10 | | 11 | | -0.0169 | | -0.0131 |
| 00:24:05 | 10 | | 12 | | -0.0201 | | -0.0271 |
| 00:24:12 | 10 | | 13 | | 0.0050 | | 0.0089 |
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| 00:24:26 | 10 | | 15 | | 0.0085 | | 0.0154 |
| 00:24:34 | 10 | | 16 | | -0.0027 | | -0.0020 |
| 00:24:41 | 10 | | 17 | | -0.0173 | | 0.0048 |
| 00:24:48 | 10 | | 18 | | -0.0182 | | 0.0004 |
| 00:24:55 | 10 | | 19 | | -0.0078 | | 0.0018 |
| 00:25:03 | 10 | | 20 | | -0.0054 | | 0.0090 |
| 00:25:11 | 11 | | 01 | | 0.0045 | | 0.0087 |
| 00:25:18 | 11 | | 02 | | 0.0319 | | 0.0106 |
| 00:25:26 | 11 | | 03 | | 0.0077 | | 0.0156 |
| 00:25:33 | 11 | | 04 | | -0.0020 | | -0.0110 |
| 00:25:40 | 11 | | 05 | | 0.0203 | | 0.0222 |
| 00:25:47 | 11 | | 06 | | 0.0049 | | 0.0032 |
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| 00:26:02 | 11 | | 08 | | 0.0159 | | 0.0122 |
| 00:26:10 | 11 | | 09 | | 0.0094 | | 0.0003 |
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| 00:27:23 | 11 | | 19 | | 0.0245 | | 0.0228 |
| 00:27:30 | 11 | | 20 | | 0.0247 | | 0.0313 |
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| 00:29:35 | 12 | | 17 | | 0.0072 | | 0.0042 |
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| 00:29:49 | 12 | | 19 | | 0.0069 | | 0.0069 |
| 00:29:56 | 12 | | 20 | | 0.0036 | | 0.0030 |
| (64, 32) tanh 0 256 | | | | | | | |
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| 00:01:32 | 02 | | 10 | | 0.0075 | | 0.0069 |
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| 00:02:17 | 03 | | 05 | | 0.0226 | | 0.0519 |
| 00:02:20 | 03 | | 06 | | -0.0140 | | -0.0215 |
| 00:02:24 | 03 | | 07 | | -0.0051 | | -0.0250 |
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| 00:10:14 | 10 | 20 | -0.0213 | -0.0219 |
| 00:10:18 | 11 | 01 | 0.0311 | 0.0324 |
| 00:10:21 | 11 | 02 | 0.0180 | 0.0134 |
| 00:10:24 | 11 | 03 | 0.0044 | 0.0050 |
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| (16, 8) tanh 0 64 | | | | | | | |
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| 00:03:51 | 02 | | 13 | | -0.0074 | | -0.0042 |
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| 00:25:37 | 11 | | 19 | | 0.0054 | | 0.0141 |
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| 00:11:17 | 12 | 19 | 0.0023 | -0.0171 |
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| (32, 16) tanh 0.2 64 | | | | |
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| (32, 16) tanh 0.2 256 | | | | |
| 00:00:04 | 01 | 01 | 0.0048 | 0.0108 |
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| (16, 8) tanh 0.2 64 | | | | | | | |
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| (16, 8) tanh 0.2 256 | | | | | | | |
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| 00:01:02 | 02 | | 10 | | -0.0104 | | -0.0164 |
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| 00:04:47 | 07 | | 20 | | 0.0366 | | 0.0129 |
| 00:04:50 | 08 | | 01 | | 0.0112 | | 0.0127 |
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| (64, 32) tanh 0.2 256 | | | | | | | |
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| (32, 16) tanh 0.1 64 | | | | | | | |
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| 00:00:35 | 01 | | 06 | | 0.0085 | | 0.0213 |
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| 00:03:28 | 02 | | 16 | | -0.0120 | | -0.0026 |
| 00:03:34 | 02 | | 17 | | 0.0034 | | 0.0249 |
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| 00:04:32 | 03 | | 07 | | -0.0244 | | -0.0359 |
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| 00:05:18 | 03 | | 15 | | -0.0169 | | -0.0158 |
| 00:05:24 | 03 | | 16 | | -0.0092 | | -0.0134 |
| 00:05:30 | 03 | | 17 | | -0.0067 | | -0.0134 |
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| 00:06:40 | 04 | | 09 | | -0.0217 | | -0.0186 |
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| 00:06:52 | 04 | | 11 | | -0.0503 | | -0.0445 |
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| 00:07:04 | 04 | | 13 | | -0.0266 | | -0.0343 |
| 00:07:09 | 04 | | 14 | | -0.0130 | | -0.0012 |
| 00:07:15 | 04 | | 15 | | -0.0310 | | -0.0185 |
| 00:07:21 | 04 | | 16 | | -0.0323 | | -0.0299 |
| 00:07:27 | 04 | | 17 | | -0.0348 | | -0.0305 |
| 00:07:33 | 04 | | 18 | | -0.0110 | | -0.0266 |
| 00:07:38 | 04 | | 19 | | -0.0199 | | -0.0169 |
| 00:07:44 | 04 | | 20 | | 0.0041 | | -0.0033 |
| 00:07:51 | 05 | | 01 | | 0.0136 | | 0.0221 |
| 00:07:56 | 05 | | 02 | | 0.0105 | | 0.0084 |
| 00:08:02 | 05 | | 03 | | 0.0079 | | -0.0019 |
| 00:08:08 | 05 | | 04 | | 0.0126 | | -0.0104 |
| 00:08:14 | 05 | | 05 | | 0.0142 | | 0.0009 |
| 00:08:20 | 05 | | 06 | | -0.0062 | | -0.0031 |
| 00:08:25 | 05 | | 07 | | 0.0094 | | 0.0081 |
| 00:08:31 | 05 | | 08 | | -0.0073 | | -0.0217 |
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| 00:11:19 | 06 | | 17 | | 0.0084 | | 0.0058 |
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| 00:12:29 | 07 | | 09 | | 0.0155 | | 0.0118 |
| 00:12:34 | 07 | | 10 | | 0.0211 | | 0.0120 |
| 00:12:40 | 07 | | 11 | | 0.0180 | | 0.0216 |
| 00:12:46 | 07 | | 12 | | -0.0032 | | 0.0261 |
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| 00:12:57 | 07 | | 14 | | -0.0214 | | -0.0009 |
| 00:13:03 | 07 | | 15 | | -0.0130 | | -0.0114 |
| 00:13:09 | 07 | | 16 | | -0.0054 | | -0.0103 |
| 00:13:15 | 07 | | 17 | | -0.0060 | | -0.0092 |
| 00:13:20 | 07 | | 18 | | -0.0146 | | -0.0118 |
| 00:13:26 | 07 | | 19 | | -0.0097 | | 0.0045 |
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| 00:14:60 | 08 | | 15 | | 0.0156 | | 0.0309 |
| 00:15:06 | 08 | | 16 | | 0.0105 | | 0.0057 |
| 00:15:11 | 08 | | 17 | | 0.0038 | | 0.0205 |
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| 00:15:41 | 09 | 02 | 0.0017 | 0.0025 |
| 00:15:47 | 09 | 03 | -0.0162 | -0.0234 |
| 00:15:53 | 09 | 04 | 0.0182 | 0.0150 |
| 00:15:59 | 09 | 05 | 0.0036 | -0.0064 |
| 00:16:04 | 09 | 06 | 0.0140 | -0.0002 |
| 00:16:10 | 09 | 07 | 0.0041 | -0.0102 |
| 00:16:16 | 09 | 08 | 0.0073 | -0.0002 |
| 00:16:22 | 09 | 09 | 0.0130 | 0.0044 |
| 00:16:27 | 09 | 10 | 0.0175 | 0.0019 |
| 00:16:33 | 09 | 11 | 0.0052 | -0.0031 |
| 00:16:39 | 09 | 12 | 0.0078 | -0.0011 |
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| 00:16:51 | 09 | 14 | 0.0203 | 0.0081 |
| 00:16:56 | 09 | 15 | 0.0289 | 0.0275 |
| 00:17:02 | 09 | 16 | 0.0111 | -0.0086 |
| 00:17:08 | 09 | 17 | 0.0265 | 0.0130 |
| 00:17:14 | 09 | 18 | 0.0119 | 0.0050 |
| 00:17:20 | 09 | 19 | 0.0214 | 0.0069 |
| 00:17:25 | 09 | 20 | 0.0170 | 0.0083 |
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| 00:18:01 | 10 | 06 | -0.0203 | -0.0069 |
| 00:18:07 | 10 | 07 | -0.0300 | -0.0136 |
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| 00:18:18 | 10 | 09 | -0.0223 | -0.0165 |
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| 00:19:05 | 10 | 17 | -0.0112 | 0.0039 |
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| 00:19:28 | 11 | 01 | 0.0345 | 0.0298 |
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| 00:21:01 | 11 | | 17 | | 0.0101 | | 0.0095 |
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| 00:22:17 | 12 | | 10 | | 0.0109 | | 0.0025 |
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| 00:00:36 | 01 | | 16 | | 0.0103 | | 0.0279 |
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| 00:01:02 | 02 | | 08 | | 0.0126 | | 0.0232 |
| 00:01:04 | 02 | | 09 | | 0.0135 | | 0.0180 |
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| 00:01:09 | 02 | | 11 | | 0.0260 | | 0.0267 |
| 00:01:11 | 02 | | 12 | | 0.0165 | | 0.0243 |
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| 00:02:28 | 04 | | 07 | | -0.0102 | | -0.0127 |
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| (32, 32) tanh 0.1 64 | | | | | | | |
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| 00:07:38 | 04 | | 16 | | -0.0359 | | -0.0432 |
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| (32, 32) tanh 0.1 256 | | | | | | | |
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| 00:02:02 | 03 | | 10 | | 0.0128 | | -0.0038 |
| 00:02:05 | 03 | | 11 | | -0.0192 | | -0.0224 |
| 00:02:07 | 03 | | 12 | | 0.0082 | | 0.0073 |
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| 00:02:17 | 03 | | 16 | | -0.0052 | | -0.0145 |
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| 00:02:22 | 03 | | 18 | | -0.0051 | | -0.0067 |
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| 00:02:42 | 04 | | 06 | | 0.0057 | | -0.0152 |
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| 00:02:59 | 04 | | 13 | | 0.0168 | | 0.0125 |
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| 00:03:06 | 04 | | 16 | | 0.0207 | | 0.0064 |
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| 00:03:11 | 04 | | 18 | | 0.0191 | | 0.0193 |
| 00:03:13 | 04 | | 19 | | 0.0276 | | 0.0134 |
| 00:03:16 | 04 | | 20 | | 0.0196 | | 0.0105 |
| 00:03:19 | 05 | | 01 | | 0.0087 | | 0.0136 |
| 00:03:21 | 05 | | 02 | | 0.0154 | | 0.0023 |
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| 00:06:50 | 09 | 07 | 0.0136 | -0.0048 |
| 00:06:52 | 09 | 08 | 0.0070 | -0.0047 |
| 00:06:54 | 09 | 09 | 0.0186 | 0.0102 |
| 00:06:57 | 09 | 10 | 0.0066 | -0.0017 |
| 00:06:59 | 09 | 11 | 0.0280 | 0.0411 |
| 00:07:02 | 09 | 12 | 0.0097 | -0.0056 |
| 00:07:04 | 09 | 13 | 0.0164 | 0.0057 |
| 00:07:06 | 09 | 14 | 0.0055 | 0.0098 |
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| 00:07:16 | 09 | 18 | 0.0197 | 0.0081 |
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| 00:07:21 | 09 | 20 | 0.0110 | -0.0019 |
| 00:07:24 | 10 | 01 | -0.0232 | -0.0017 |
| 00:07:26 | 10 | 02 | 0.0464 | 0.0377 |
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| 00:07:53 | 10 | 13 | -0.0173 | -0.0062 |
| 00:07:56 | 10 | 14 | -0.0055 | -0.0015 |
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| 00:08:08 | 10 | 19 | -0.0233 | -0.0345 |
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| 00:08:16 | 11 | 02 | 0.0255 | 0.0242 |
| 00:08:18 | 11 | 03 | 0.0281 | 0.0281 |
| 00:08:20 | 11 | 04 | 0.0297 | 0.0344 |
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| (32, 16) tanh 0 64 | | | | | | | |
| 00:00:07 | 01 | | 01 | | -0.0044 | | 0.0151 |
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| 00:01:32 | 01 | | 16 | | -0.0001 | | 0.0032 |
| 00:01:38 | 01 | | 17 | | -0.0080 | | -0.0169 |
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| 00:05:29 | 03 | | 17 | | -0.0171 | | -0.0195 |
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| 00:13:29 | 07 | | 20 | | 0.0109 | | 0.0248 |
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| 00:19:01 | 10 | 17 | -0.0216 | -0.0328 |
| 00:19:07 | 10 | 18 | -0.0387 | -0.0560 |
| 00:19:13 | 10 | 19 | -0.0142 | -0.0274 |
| 00:19:19 | 10 | 20 | -0.0309 | -0.0314 |
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| 00:19:31 | 11 | 02 | -0.0012 | -0.0084 |
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| (32, 16) tanh 0 256 | | | | | | | |
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| 00:01:10 | 02 | | 11 | | -0.0012 | | -0.0039 |
| 00:01:12 | 02 | | 12 | | 0.0111 | | 0.0119 |
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| 00:01:16 | 02 | | 14 | | 0.0246 | | 0.0210 |
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| 00:01:23 | 02 | | 17 | | 0.0054 | | 0.0030 |
| 00:01:25 | 02 | | 18 | | 0.0091 | | 0.0268 |
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| 00:01:35 | 03 | | 02 | | 0.0282 | | 0.0190 |
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| 00:01:41 | 03 | | 05 | | -0.0131 | | -0.0277 |
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| 00:01:52 | 03 | | 10 | | 0.0214 | | 0.0028 |
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| 00:02:07 | 03 | | 17 | | 0.0158 | | 0.0099 |
| 00:02:09 | 03 | | 18 | | 0.0079 | | -0.0137 |
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| 00:02:21 | 04 | | 03 | | -0.0319 | | -0.0311 |
| 00:02:23 | 04 | | 04 | | 0.0240 | | 0.0281 |
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| 00:02:28 | 04 | | 06 | | 0.0317 | | 0.0100 |
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| 00:02:34 | 04 | | 09 | | 0.0172 | | 0.0064 |
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| 00:02:47 | 04 | | 15 | | 0.0218 | | 0.0255 |
| 00:02:49 | 04 | | 16 | | 0.0051 | | 0.0002 |
| 00:02:52 | 04 | | 17 | | -0.0166 | | -0.0166 |
| 00:02:54 | 04 | | 18 | | -0.0135 | | -0.0000 |
| 00:02:56 | 04 | | 19 | | -0.0329 | | -0.0113 |
| 00:02:58 | 04 | | 20 | | 0.0039 | | 0.0197 |
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| 00:03:03 | 05 | | 02 | | -0.0193 | | -0.0045 |
| 00:03:05 | 05 | | 03 | | -0.0200 | | -0.0242 |
| 00:03:08 | 05 | | 04 | | -0.0103 | | -0.0178 |
| 00:03:10 | 05 | | 05 | | 0.0106 | | -0.0077 |
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| 00:03:21 | 05 | | 10 | | 0.0047 | | -0.0066 |
| 00:03:23 | 05 | | 11 | | 0.0058 | | 0.0136 |
| 00:03:25 | 05 | | 12 | | 0.0086 | | 0.0045 |
| 00:03:27 | 05 | | 13 | | -0.0021 | | -0.0103 |
| 00:03:29 | 05 | | 14 | | 0.0178 | | 0.0116 |
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| 00:03:34 | 05 | | 16 | | 0.0264 | | 0.0176 |
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| 00:03:38 | 05 | | 18 | | 0.0227 | | 0.0240 |
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| 00:04:01 | 06 | | 08 | | 0.0370 | | 0.0326 |
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| 00:04:08 | 06 | | 11 | | -0.0061 | | -0.0105 |
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| 00:04:12 | 06 | | 13 | | 0.0334 | | 0.0244 |
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| 00:04:17 | 06 | | 15 | | 0.0053 | | 0.0115 |
| 00:04:19 | 06 | | 16 | | 0.0248 | | 0.0220 |
| 00:04:21 | 06 | | 17 | | 0.0167 | | 0.0035 |
| 00:04:23 | 06 | | 18 | | 0.0412 | | 0.0229 |
| 00:04:26 | 06 | | 19 | | -0.0025 | | -0.0114 |
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| 00:04:31 | 07 | | 01 | | 0.0061 | | 0.0110 |
| 00:04:33 | 07 | | 02 | | 0.0174 | | 0.0162 |
| 00:04:35 | 07 | | 03 | | 0.0039 | | 0.0135 |
| 00:04:37 | 07 | | 04 | | 0.0129 | | 0.0089 |
| 00:04:40 | 07 | | 05 | | 0.0111 | | 0.0309 |
| 00:04:42 | 07 | | 06 | | 0.0131 | | 0.0317 |
| 00:04:44 | 07 | | 07 | | 0.0475 | | 0.0360 |
| 00:04:46 | 07 | | 08 | | 0.0473 | | 0.0397 |
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| 00:04:53 | 07 | | 11 | | 0.0017 | | 0.0130 |
| 00:04:55 | 07 | | 12 | | -0.0155 | | -0.0254 |
| 00:04:57 | 07 | | 13 | | 0.0087 | | 0.0336 |
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| 00:05:01 | 07 | | 15 | | 0.0174 | | 0.0456 |
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| 00:05:38 | 08 | | 11 | | 0.0137 | | 0.0488 |
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| 00:05:49 | 08 | 16 | 0.0143 | 0.0152 |
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| 00:05:55 | 08 | 19 | 0.0061 | 0.0090 |
| 00:05:58 | 08 | 20 | 0.0135 | 0.0118 |
| 00:06:01 | 09 | 01 | 0.0040 | 0.0041 |
| 00:06:03 | 09 | 02 | 0.0036 | 0.0074 |
| 00:06:05 | 09 | 03 | 0.0206 | 0.0236 |
| 00:06:07 | 09 | 04 | 0.0062 | -0.0020 |
| 00:06:09 | 09 | 05 | -0.0054 | -0.0076 |
| 00:06:11 | 09 | 06 | 0.0081 | 0.0127 |
| 00:06:14 | 09 | 07 | -0.0037 | -0.0050 |
| 00:06:16 | 09 | 08 | 0.0047 | 0.0024 |
| 00:06:18 | 09 | 09 | 0.0074 | 0.0107 |
| 00:06:20 | 09 | 10 | 0.0219 | 0.0196 |
| 00:06:22 | 09 | 11 | 0.0228 | 0.0261 |
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| 00:06:38 | 09 | 18 | 0.0041 | 0.0043 |
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| 00:06:45 | 10 | 01 | -0.0334 | -0.0243 |
| 00:06:47 | 10 | 02 | 0.0194 | 0.0276 |
| 00:06:49 | 10 | 03 | 0.0095 | 0.0006 |
| 00:06:51 | 10 | 04 | -0.0041 | -0.0241 |
| 00:06:54 | 10 | 05 | 0.0248 | 0.0152 |
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| 00:07:13 | 10 | 14 | 0.0287 | 0.0207 |
| 00:07:15 | 10 | 15 | 0.0051 | 0.0063 |
| 00:07:17 | 10 | 16 | 0.0161 | 0.0083 |
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| 00:07:24 | 10 | 19 | -0.0027 | -0.0091 |
| 00:07:26 | 10 | 20 | 0.0104 | -0.0006 |
| 00:07:30 | 11 | 01 | -0.0070 | -0.0096 |
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| 00:01:24 | 01 | | 14 | | 0.0246 | | 0.0147 |
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| 00:05:48 | 03 | | 18 | | 0.0133 | | 0.0115 |

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| 00:05:54 | 03 | | 19 | | 0.0308 | | 0.0463 |
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| (32, 32) tanh 0 256 | | | | | | | |
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| 00:05:23 | 07 | | 12 | | 0.0194 | | 0.0053 |
| 00:05:25 | 07 | | 13 | | 0.0061 | | -0.0206 |
| 00:05:28 | 07 | | 14 | | -0.0053 | | -0.0192 |
| 00:05:30 | 07 | | 15 | | 0.0034 | | 0.0109 |
| 00:05:33 | 07 | | 16 | | 0.0092 | | 0.0219 |
| 00:05:35 | 07 | | 17 | | 0.0028 | | 0.0122 |
| 00:05:37 | 07 | | 18 | | -0.0051 | | -0.0277 |
| 00:05:40 | 07 | | 19 | | -0.0061 | | -0.0051 |
| 00:05:42 | 07 | | 20 | | -0.0221 | | -0.0308 |
| 00:05:45 | 08 | | 01 | | 0.0115 | | 0.0182 |
| 00:05:48 | 08 | | 02 | | 0.0118 | | -0.0033 |
| 00:05:50 | 08 | | 03 | | 0.0132 | | 0.0171 |
| 00:05:52 | 08 | | 04 | | -0.0075 | | -0.0119 |
| 00:05:55 | 08 | | 05 | | 0.0139 | | 0.0069 |
| 00:05:57 | 08 | | 06 | | 0.0004 | | 0.0049 |
| 00:05:59 | 08 | | 07 | | 0.0189 | | 0.0241 |
| 00:06:02 | 08 | | 08 | | 0.0214 | | 0.0077 |
| 00:06:04 | 08 | | 09 | | -0.0008 | | 0.0107 |
| 00:06:07 | 08 | | 10 | | -0.0049 | | -0.0017 |
| 00:06:09 | 08 | | 11 | | 0.0048 | | 0.0217 |
| 00:06:11 | 08 | | 12 | | 0.0109 | | -0.0014 |
| 00:06:14 | 08 | | 13 | | 0.0059 | | 0.0211 |

| | | | | | | | |
|----------|----|--|----|--|---------|--|---------|
| 00:06:16 | 08 | | 14 | | -0.0021 | | -0.0148 |
| 00:06:19 | 08 | | 15 | | 0.0073 | | 0.0110 |
| 00:06:21 | 08 | | 16 | | 0.0120 | | -0.0035 |
| 00:06:23 | 08 | | 17 | | 0.0046 | | 0.0083 |
| 00:06:26 | 08 | | 18 | | 0.0219 | | 0.0105 |
| 00:06:28 | 08 | | 19 | | 0.0136 | | 0.0310 |
| 00:06:31 | 08 | | 20 | | 0.0222 | | 0.0354 |
| 00:06:34 | 09 | | 01 | | -0.0044 | | 0.0053 |
| 00:06:36 | 09 | | 02 | | 0.0130 | | 0.0052 |
| 00:06:39 | 09 | | 03 | | 0.0140 | | 0.0044 |
| 00:06:41 | 09 | | 04 | | -0.0022 | | -0.0083 |
| 00:06:44 | 09 | | 05 | | 0.0111 | | 0.0155 |
| 00:06:46 | 09 | | 06 | | 0.0012 | | 0.0028 |
| 00:06:48 | 09 | | 07 | | 0.0059 | | 0.0080 |
| 00:06:51 | 09 | | 08 | | -0.0109 | | -0.0172 |
| 00:06:53 | 09 | | 09 | | -0.0013 | | -0.0090 |
| 00:06:56 | 09 | | 10 | | 0.0156 | | 0.0249 |
| 00:06:58 | 09 | | 11 | | 0.0130 | | 0.0193 |
| 00:07:00 | 09 | | 12 | | 0.0097 | | 0.0064 |
| 00:07:03 | 09 | | 13 | | 0.0088 | | 0.0252 |
| 00:07:05 | 09 | | 14 | | 0.0079 | | 0.0114 |
| 00:07:07 | 09 | | 15 | | 0.0046 | | -0.0046 |
| 00:07:10 | 09 | | 16 | | 0.0086 | | 0.0115 |
| 00:07:12 | 09 | | 17 | | 0.0076 | | -0.0130 |
| 00:07:15 | 09 | | 18 | | -0.0022 | | -0.0224 |
| 00:07:17 | 09 | | 19 | | 0.0056 | | 0.0077 |
| 00:07:20 | 09 | | 20 | | 0.0065 | | -0.0040 |
| 00:07:23 | 10 | | 01 | | -0.0391 | | -0.0545 |
| 00:07:25 | 10 | | 02 | | 0.0447 | | 0.0487 |
| 00:07:28 | 10 | | 03 | | 0.0178 | | 0.0177 |
| 00:07:30 | 10 | | 04 | | 0.0007 | | 0.0198 |
| 00:07:32 | 10 | | 05 | | -0.0058 | | 0.0076 |
| 00:07:35 | 10 | | 06 | | -0.0236 | | -0.0132 |
| 00:07:37 | 10 | | 07 | | -0.0146 | | 0.0126 |
| 00:07:40 | 10 | | 08 | | -0.0108 | | -0.0214 |
| 00:07:42 | 10 | | 09 | | -0.0089 | | -0.0087 |
| 00:07:45 | 10 | | 10 | | -0.0055 | | -0.0125 |
| 00:07:47 | 10 | | 11 | | -0.0253 | | -0.0222 |
| 00:07:49 | 10 | | 12 | | -0.0264 | | -0.0329 |
| 00:07:52 | 10 | | 13 | | -0.0177 | | -0.0297 |
| 00:07:54 | 10 | | 14 | | -0.0157 | | -0.0101 |
| 00:07:56 | 10 | | 15 | | -0.0039 | | -0.0110 |
| 00:07:59 | 10 | | 16 | | 0.0019 | | -0.0047 |
| 00:08:01 | 10 | | 17 | | 0.0028 | | 0.0060 |
| 00:08:04 | 10 | | 18 | | 0.0062 | | -0.0258 |
| 00:08:06 | 10 | | 19 | | -0.0166 | | -0.0021 |
| 00:08:08 | 10 | | 20 | | -0.0038 | | -0.0053 |
| 00:08:12 | 11 | | 01 | | 0.0153 | | 0.0116 |

| | | | | | | | |
|----------|----|--|----|--|---------|--|---------|
| 00:08:14 | 11 | | 02 | | 0.0248 | | 0.0413 |
| 00:08:17 | 11 | | 03 | | 0.0279 | | 0.0308 |
| 00:08:19 | 11 | | 04 | | 0.0166 | | 0.0121 |
| 00:08:22 | 11 | | 05 | | 0.0241 | | 0.0256 |
| 00:08:24 | 11 | | 06 | | 0.0203 | | 0.0262 |
| 00:08:26 | 11 | | 07 | | 0.0092 | | 0.0114 |
| 00:08:29 | 11 | | 08 | | 0.0189 | | 0.0245 |
| 00:08:31 | 11 | | 09 | | 0.0152 | | 0.0048 |
| 00:08:34 | 11 | | 10 | | 0.0200 | | 0.0208 |
| 00:08:36 | 11 | | 11 | | 0.0215 | | 0.0200 |
| 00:08:38 | 11 | | 12 | | 0.0259 | | 0.0247 |
| 00:08:41 | 11 | | 13 | | 0.0263 | | 0.0329 |
| 00:08:43 | 11 | | 14 | | 0.0368 | | 0.0379 |
| 00:08:46 | 11 | | 15 | | 0.0297 | | 0.0327 |
| 00:08:48 | 11 | | 16 | | 0.0361 | | 0.0294 |
| 00:08:51 | 11 | | 17 | | 0.0270 | | 0.0237 |
| 00:08:53 | 11 | | 18 | | 0.0299 | | 0.0347 |
| 00:08:55 | 11 | | 19 | | 0.0281 | | 0.0325 |
| 00:08:58 | 11 | | 20 | | 0.0354 | | 0.0332 |
| 00:09:01 | 12 | | 01 | | 0.0088 | | -0.0081 |
| 00:09:04 | 12 | | 02 | | 0.0188 | | 0.0099 |
| 00:09:06 | 12 | | 03 | | 0.0018 | | -0.0031 |
| 00:09:08 | 12 | | 04 | | -0.0013 | | -0.0201 |
| 00:09:11 | 12 | | 05 | | 0.0034 | | -0.0094 |
| 00:09:13 | 12 | | 06 | | 0.0084 | | -0.0028 |
| 00:09:15 | 12 | | 07 | | 0.0128 | | 0.0050 |
| 00:09:18 | 12 | | 08 | | 0.0039 | | -0.0042 |
| 00:09:20 | 12 | | 09 | | 0.0287 | | 0.0243 |
| 00:09:23 | 12 | | 10 | | 0.0148 | | 0.0192 |
| 00:09:25 | 12 | | 11 | | 0.0071 | | 0.0016 |
| 00:09:27 | 12 | | 12 | | 0.0144 | | 0.0122 |
| 00:09:30 | 12 | | 13 | | 0.0127 | | 0.0070 |
| 00:09:32 | 12 | | 14 | | 0.0063 | | 0.0105 |
| 00:09:35 | 12 | | 15 | | 0.0123 | | 0.0046 |
| 00:09:37 | 12 | | 16 | | 0.0040 | | -0.0115 |
| 00:09:39 | 12 | | 17 | | 0.0109 | | -0.0022 |
| 00:09:42 | 12 | | 18 | | 0.0189 | | 0.0066 |
| 00:09:44 | 12 | | 19 | | 0.0207 | | 0.0036 |
| 00:09:46 | 12 | | 20 | | 0.0159 | | 0.0007 |

1.4.3 Evaluate predictive performance

```
[23]: params = ['dense_layers', 'dropout', 'batch_size']
```

```
[24]: ic = pd.read_hdf(results_path / 'scores.h5', 'ic_by_day').drop('activation',
    ↪axis=1)
ic.info()
```

```

<class 'pandas.core.frame.DataFrame'>
DatetimeIndex: 18144 entries, 2017-08-30 to 2015-03-02
Data columns (total 24 columns):
#   Column                Non-Null Count  Dtype
---  -
0   0                      18144 non-null  float64
1   1                      18144 non-null  float64
2   2                      18144 non-null  float64
3   3                      18144 non-null  float64
4   4                      18144 non-null  float64
5   5                      18144 non-null  float64
6   6                      18144 non-null  float64
7   7                      18144 non-null  float64
8   8                      18144 non-null  float64
9   9                      18144 non-null  float64
10  10                     18144 non-null  float64
11  11                     18144 non-null  float64
12  12                     18144 non-null  float64
13  13                     18144 non-null  float64
14  14                     18144 non-null  float64
15  15                     18144 non-null  float64
16  16                     18144 non-null  float64
17  17                     18144 non-null  float64
18  18                     18144 non-null  float64
19  19                     18144 non-null  float64
20  dense_layers          18144 non-null  object
21  dropout               18144 non-null  float64
22  batch_size            18144 non-null  int64
23  fold                  18144 non-null  int64
dtypes: float64(21), int64(2), object(1)
memory usage: 3.5+ MB

```

```
[25]: ic.groupby(params).size()
```

```

[25]: dense_layers  dropout  batch_size
(16, 8)          0.0        64          756
              256          756
              0.1         64          756
              256          756
              0.2         64          756
              256          756
(32, 16)         0.0         64          756
              256          756
              0.1         64          756
              256          756
              0.2         64          756
              256          756

```


| | | | |
|----------|-----|-----|-----|
| (32, 32) | 0.0 | 64 | 756 |
| | | 256 | 756 |
| | 0.1 | 64 | 756 |
| | | 256 | 756 |
| (64, 32) | 0.0 | 64 | 756 |
| | | 256 | 756 |
| | 0.1 | 64 | 756 |
| | | 256 | 756 |
| | 0.2 | 64 | 756 |
| | | 256 | 756 |
| | 0.1 | 64 | 756 |
| | | 256 | 756 |
| | 0.2 | 64 | 756 |
| | | 256 | 756 |

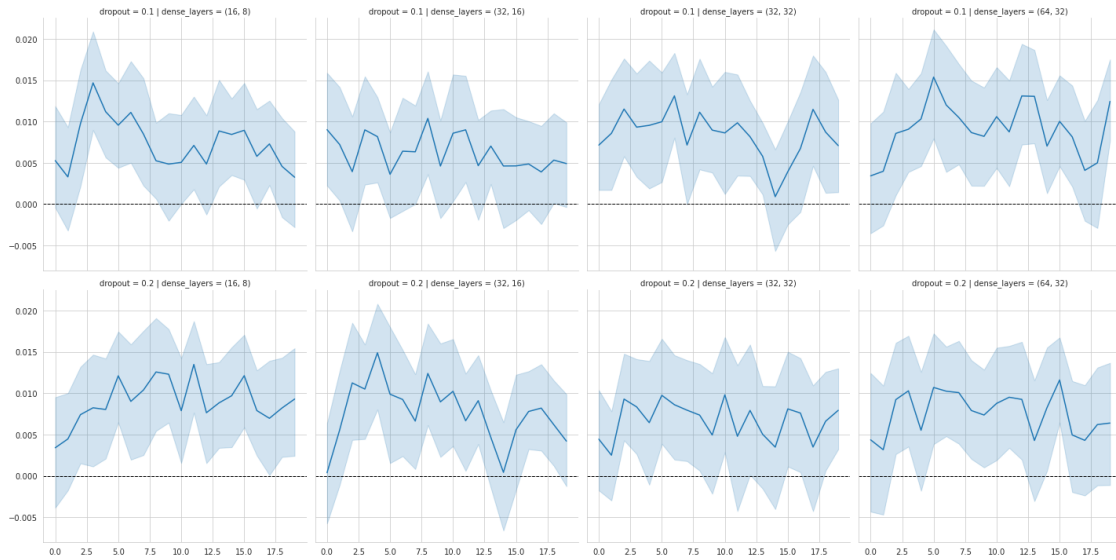
dtype: int64

```
[26]: ic_long = pd.melt(ic, id_vars=params + ['fold'], var_name='epoch',
    ↪value_name='ic')
ic_long.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 362880 entries, 0 to 362879
Data columns (total 6 columns):
#   Column          Non-Null Count  Dtype
---  -
0   dense_layers    362880 non-null  object
1   dropout         362880 non-null  float64
2   batch_size     362880 non-null  int64
3   fold           362880 non-null  int64
4   epoch          362880 non-null  object
5   ic             362880 non-null  float64
dtypes: float64(2), int64(2), object(2)
memory usage: 16.6+ MB
```

```
[27]: ic_long = ic_long.groupby(params+ ['epoch', 'fold']).ic.mean().to_frame('ic').
    ↪reset_index()
```

```
[28]: g = sns.relplot(x='epoch', y='ic', col='dense_layers', row='dropout',
    data=ic_long[ic_long.dropout>0], kind='line')
g.map(plt.axhline, y=0, ls='--', c='k', lw=1)
g.savefig(results_path / 'ic_lineplot', dpi=300);
```



```
[29]: def run_ols(ic):
    ic.dense_layers = ic.dense_layers.str.replace(', ', '-').str.replace('(', '
    ↪').str.replace(')', '')
    data = pd.melt(ic, id_vars=params, var_name='epoch', value_name='ic')
    data.epoch = data.epoch.astype(int).astype(str).apply(lambda x: f'{int(x):
    ↪02.0f}')
    model_data = pd.get_dummies(data.sort_values(params + ['epoch']),
    ↪columns=['epoch'] + params, drop_first=True).sort_index(1)
    model_data.columns = [s.split('_')[-1] for s in model_data.columns]
    model = sm.OLS(endog=model_data.ic, exog=sm.add_constant(model_data.
    ↪drop('ic', axis=1)))
    return model.fit()
```

```
[30]: model = run_ols(ic.drop('fold', axis=1))
```

```
[31]: print(model.summary())
```

OLS Regression Results

```
=====
Dep. Variable:          ic    R-squared:                0.000
Model:                  OLS    Adj. R-squared:           0.000
Method:                 Least Squares    F-statistic:            2.444
Date:                   Thu, 25 Feb 2021    Prob (F-statistic):      7.39e-05
Time:                   17:06:57    Log-Likelihood:         2.3604e+05
No. Observations:      362880    AIC:                    -4.720e+05
Df Residuals:          362854    BIC:                    -4.718e+05
Df Model:               25
Covariance Type:        nonrobust
=====
```

| | coef | std err | t | P> t | [0.025 | 0.975] |
|----------------|-----------|----------|-------------------|-------|-----------|-----------|
| ----- | | | | | | |
| const | 0.0027 | 0.001 | 2.529 | 0.011 | 0.001 | 0.005 |
| 256 | 0.0014 | 0.000 | 3.368 | 0.001 | 0.001 | 0.002 |
| 32-16 | -0.0002 | 0.001 | -0.321 | 0.748 | -0.001 | 0.001 |
| 32-32 | -0.0002 | 0.001 | -0.265 | 0.791 | -0.001 | 0.001 |
| 64-32 | -9.26e-05 | 0.001 | -0.156 | 0.876 | -0.001 | 0.001 |
| 0.1 | 0.0005 | 0.001 | 1.032 | 0.302 | -0.000 | 0.002 |
| 0.2 | 0.0005 | 0.001 | 0.932 | 0.351 | -0.001 | 0.001 |
| 01 | 0.0017 | 0.001 | 1.307 | 0.191 | -0.001 | 0.004 |
| 02 | 0.0044 | 0.001 | 3.299 | 0.001 | 0.002 | 0.007 |
| 03 | 0.0052 | 0.001 | 3.944 | 0.000 | 0.003 | 0.008 |
| 04 | 0.0053 | 0.001 | 3.996 | 0.000 | 0.003 | 0.008 |
| 05 | 0.0058 | 0.001 | 4.353 | 0.000 | 0.003 | 0.008 |
| 06 | 0.0057 | 0.001 | 4.296 | 0.000 | 0.003 | 0.008 |
| 07 | 0.0054 | 0.001 | 4.038 | 0.000 | 0.003 | 0.008 |
| 08 | 0.0053 | 0.001 | 3.997 | 0.000 | 0.003 | 0.008 |
| 09 | 0.0040 | 0.001 | 3.054 | 0.002 | 0.001 | 0.007 |
| 10 | 0.0050 | 0.001 | 3.781 | 0.000 | 0.002 | 0.008 |
| 11 | 0.0044 | 0.001 | 3.346 | 0.001 | 0.002 | 0.007 |
| 12 | 0.0046 | 0.001 | 3.489 | 0.000 | 0.002 | 0.007 |
| 13 | 0.0039 | 0.001 | 2.920 | 0.004 | 0.001 | 0.006 |
| 14 | 0.0027 | 0.001 | 2.037 | 0.042 | 0.000 | 0.005 |
| 15 | 0.0042 | 0.001 | 3.196 | 0.001 | 0.002 | 0.007 |
| 16 | 0.0027 | 0.001 | 2.042 | 0.041 | 0.000 | 0.005 |
| 17 | 0.0025 | 0.001 | 1.911 | 0.056 | -6.55e-05 | 0.005 |
| 18 | 0.0031 | 0.001 | 2.311 | 0.021 | 0.000 | 0.006 |
| 19 | 0.0034 | 0.001 | 2.528 | 0.011 | 0.001 | 0.006 |
| ===== | | | | | | |
| Omnibus: | | 5763.272 | Durbin-Watson: | | | 1.994 |
| Prob(Omnibus): | | 0.000 | Jarque-Bera (JB): | | | 11327.461 |
| Skew: | | 0.038 | Prob(JB): | | | 0.00 |
| Kurtosis: | | 3.862 | Cond. No. | | | 27.2 |
| ===== | | | | | | |

Notes:

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

```
[32]: fig, ax = plt.subplots(figsize=(14, 4))

ci = model.conf_int()
errors = ci[1].sub(ci[0]).div(2)

coefs = (model.params.to_frame('coef').assign(error=errors)
         .reset_index().rename(columns={'index': 'variable'}))
```

```

coefs = coefs[~coefs['variable'].str.startswith('date') & (coefs.variable != '
↳const')]

coefs.plot(x='variable', y='coef', kind='bar',
           ax=ax, color='none', capsize=3,
           yerr='error', legend=False, rot=0, title='Impact of Architecture and
↳Training Parameters on Out-of-Sample Performance')
ax.set_ylabel('IC')
ax.set_xlabel('')
ax.scatter(x=pd.np.arange(len(coefs)), marker='_', s=120, y=coefs['coef'],
↳color='black')
ax.axhline(y=0, linestyle='--', color='black', linewidth=1)
ax.xaxis.set_ticks_position('none')

ax.annotate('Batch Size', xy=(.02, -0.1), xytext=(.02, -0.2),
           xycoords='axes fraction',
           textcoords='axes fraction',
           fontsize=11, ha='center', va='bottom',
           bbox=dict(boxstyle='square', fc='white', ec='black'),
           arrowprops=dict(arrowstyle='-[', widthB=1.3, lengthB=0.8', lw=1.0,
↳color='black'))

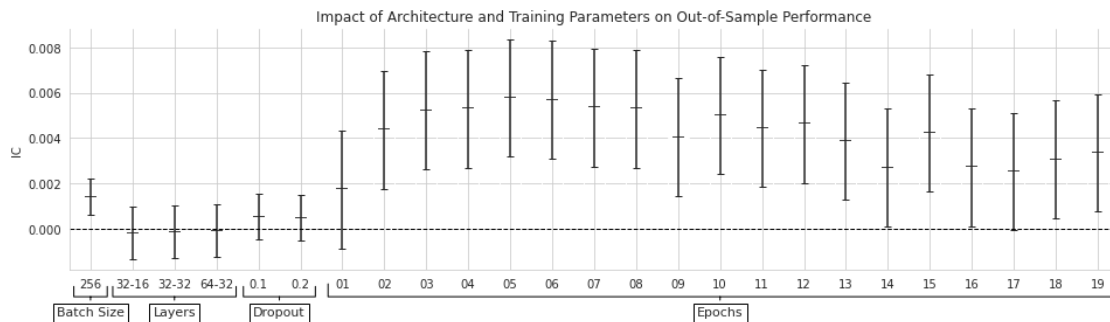
ax.annotate('Layers', xy=(.1, -0.1), xytext=(.1, -0.2),
           xycoords='axes fraction',
           textcoords='axes fraction',
           fontsize=11, ha='center', va='bottom',
           bbox=dict(boxstyle='square', fc='white', ec='black'),
           arrowprops=dict(arrowstyle='-[', widthB=4.8, lengthB=0.8', lw=1.0,
↳color='black'))

ax.annotate('Dropout', xy=(.2, -0.1), xytext=(.2, -0.2),
           xycoords='axes fraction',
           textcoords='axes fraction',
           fontsize=11, ha='center', va='bottom',
           bbox=dict(boxstyle='square', fc='white', ec='black'),
           arrowprops=dict(arrowstyle='-[', widthB=2.8, lengthB=0.8', lw=1.0,
↳color='black'))

ax.annotate('Epochs', xy=(.62, -0.1), xytext=(.62, -0.2),
           xycoords='axes fraction',
           textcoords='axes fraction',
           fontsize=11, ha='center', va='bottom',
           bbox=dict(boxstyle='square', fc='white', ec='black'),
           arrowprops=dict(arrowstyle='-[', widthB=30.5, lengthB=1.0', lw=1.0,
↳color='black'))

```

```
sns.despine()
fig.tight_layout()
fig.savefig(results_path / 'ols_coef', dpi=300)
```



1.5 Make Predictions

```
[33]: def get_best_params(n=5):
    """Get the best parameters across all folds by daily median IC"""
    params = ['dense_layers', 'activation', 'dropout', 'batch_size']
    ic = pd.read_hdf(results_path / 'scores.h5', 'ic_by_day').drop('fold',
    ↪axis=1)
    dates = sorted(ic.index.unique())
    train_period = 24 * 21
    train_dates = dates[:train_period]
    ic = ic.loc[train_dates]
    return (ic.groupby(params)
            .median()
            .stack()
            .to_frame('ic')
            .reset_index()
            .rename(columns={'level_4': 'epoch'})
            .nlargest(n=n, columns='ic')
            .drop('ic', axis=1)
            .to_dict('records'))

[40]: def generate_predictions(dense_layers, activation, dropout, batch_size, epoch):
    data = pd.read_hdf('../12_gradient_boosting_machines/data.h5',
    ↪'model_data').dropna().sort_index()
    outcomes = data.filter(like='fwd').columns.tolist()
    X_cv = data.loc[idx[:, : '2017'], :].drop(outcomes, axis=1)
    input_dim = X_cv.shape[1]
    y_cv = data.loc[idx[:, : '2017'], 'r01_fwd']

    scaler = StandardScaler()
```

```

predictions = []

do = '0' if str(dropout) == '0.0' else str(dropout)
checkpoint_dir = checkpoint_path / str(dense_layers) / activation / str(do)
↪/ str(batch_size)

for fold, (train_idx, test_idx) in enumerate(cv.split(X_cv)):
    x_train, y_train, x_val, y_val = get_train_valid_data(X_cv, y_cv,
↪train_idx, test_idx)
    x_val = scaler.fit(x_train).transform(x_val)
    model = make_model(make_tuple(dense_layers), activation, dropout)
    status = model.load_weights((checkpoint_dir / f'ckpt_{fold}_{epoch}').
↪as_posix())
    status.expect_partial()
    predictions.append(pd.Series(model.predict(x_val).squeeze(),
↪index=y_val.index))
return pd.concat(predictions)

```

```

[41]: best_params = get_best_params()
predictions = []
for i, params in enumerate(best_params):
    predictions.append(generate_predictions(**params).to_frame(i))

predictions = pd.concat(predictions, axis=1)
print(predictions.info())
predictions.to_hdf(results_path / 'test_preds.h5', 'predictions')

```

```

-----
ValueError                                Traceback (most recent call last)
<ipython-input-41-293e5b606df7> in <module>
      2 predictions = []
      3 for i, params in enumerate(best_params):
----> 4     predictions.append(generate_predictions(**params).to_frame(i))
      5
      6 predictions = pd.concat(predictions, axis=1)

<ipython-input-40-1270e8a7c157> in generate_predictions(dense_layers,
↪activation, dropout, batch_size, epoch)
     16     x_val = scaler.fit(x_train).transform(x_val)
     17     model = make_model(make_tuple(dense_layers), activation, dropout)
----> 18     status = model.load_weights((checkpoint_dir /
↪f'ckpt_{fold}_{epoch}').as_posix())
     19     status.expect_partial()
     20     predictions.append(pd.Series(model.predict(x_val).squeeze(),
↪index=y_val.index))

```

```

/opt/conda/envs/ml4t-dl/lib/python3.8/site-packages/tensorflow/python/keras/
↳ engine/training.py in load_weights(self, filepath, by_name, skip_mismatch,
↳ options)
    2180         save_format = 'h5'
    2181     if save_format == 'tf':
-> 2182         status = self._trackable_saver.restore(filepath, options)
    2183     if by_name:
    2184         raise NotImplementedError(

/opt/conda/envs/ml4t-dl/lib/python3.8/site-packages/tensorflow/python/training/
↳ tracking/util.py in restore(self, save_path, options)
    1317         graph_view=self._graph_view,
    1318         options=options)
-> 1319     base.CheckpointPosition(

    1320         checkpoint=checkpoint, proto_id=0).restore(self._graph_view.root)
    1321     load_status = CheckpointLoadStatus(

/opt/conda/envs/ml4t-dl/lib/python3.8/site-packages/tensorflow/python/training/
↳ tracking/base.py in restore(self, trackable)
    207         # This object's correspondence with a checkpointed object is
↳ new, so
    208         # process deferred restorations for it and its dependencies.
--> 209         restore_ops = trackable._restore_from_checkpoint_position(self)
↳ # pylint: disable=protected-access
    210         if restore_ops:
    211             self._checkpoint.new_restore_ops(restore_ops)

/opt/conda/envs/ml4t-dl/lib/python3.8/site-packages/tensorflow/python/training/
↳ tracking/base.py in _restore_from_checkpoint_position(self,
↳ checkpoint_position)
    911         python_saveables.extend(new_python_saveables)
    912         restore_ops.extend(
--> 913             current_position.checkpoint.restore_saveables(

    914                 tensor_saveables, python_saveables))
    915         return restore_ops

/opt/conda/envs/ml4t-dl/lib/python3.8/site-packages/tensorflow/python/training/
↳ tracking/util.py in restore_saveables(self, tensor_saveables, python_saveables)
    294         ("Saveable keys changed when validating. Got back %s, was "
    295          "expecting %s") % (tensor_saveables.keys(),
↳ validated_names))
--> 296         new_restore_ops = functional_saver.MultiDeviceSaver(

    297             validated_saveables).restore(self.save_path_tensor, self.
↳ options)
    298         if not context.executing_eagerly():

```

```

/opt/conda/envs/ml4t-dl/lib/python3.8/site-packages/tensorflow/python/training/
↪saving/functional_saver.py in restore(self, file_prefix, options)
    338         restore_ops = tf_function_restore()
    339     else:
--> 340         restore_ops = restore_fn()
    341
    342     for callback in self._after_restore_callbacks:

/opt/conda/envs/ml4t-dl/lib/python3.8/site-packages/tensorflow/python/training/
↪saving/functional_saver.py in restore_fn()
    314         for device, saver in sorted(self._single_device_savers.items()):
    315             with ops.device(device):
--> 316                 restore_ops.update(saver.restore(file_prefix, options))
    317
    318     return restore_ops

/opt/conda/envs/ml4t-dl/lib/python3.8/site-packages/tensorflow/python/training/
↪saving/functional_saver.py in restore(self, file_prefix, options)
    108     for saveable, restored_tensors in zip(self._saveable_objects,
    109                                           structured_restored_tensors):
--> 110         restore_ops[saveable.name] = saveable.restore(
    111             restored_tensors, restored_shapes=None)
    112     return restore_ops

/opt/conda/envs/ml4t-dl/lib/python3.8/site-packages/tensorflow/python/training/
↪saving/saveable_object_util.py in restore(self, restored_tensors,
↪restored_shapes)
    124     with ops.device(self._var_device):
    125         restored_tensor = array_ops.identity(restored_tensor)
--> 126         return resource_variable_ops.shape_safe_assign_variable_handle(
    127             self.handle_op, self._var_shape, restored_tensor)
    128

/opt/conda/envs/ml4t-dl/lib/python3.8/site-packages/tensorflow/python/ops/
↪resource_variable_ops.py in shape_safe_assign_variable_handle(handle, shape,
↪value, name)
    309     with _handle_graph(handle):
    310         value_tensor = ops.convert_to_tensor(value)
--> 311     shape.assert_is_compatible_with(value_tensor.shape)
    312     return gen_resource_variable_ops.assign_variable_op(handle,
    313                                                         value_tensor,

/opt/conda/envs/ml4t-dl/lib/python3.8/site-packages/tensorflow/python/framework
↪tensor_shape.py in assert_is_compatible_with(self, other)
    1132     """
    1133     if not self.is_compatible_with(other):

```



```
-> 1134         raise ValueError("Shapes %s and %s are incompatible" % (self,
↪      other))
    1135
    1136     def most_specific_compatible_shape(self, other):
```

```
ValueError: Shapes (31, 32) and (30, 32) are incompatible
```

1.5.1 How to further improve the results

The relatively simple architecture yields some promising results. To further improve performance, you can - First and foremost, add new features and more data to the model - Expand the set of architectures to explore, including more or wider layers - Inspect the training progress and train for more epochs if the validation error continued to improve at 50 epochs

Finally, you can use more sophisticated architectures, including Recurrent Neural Networks (RNN) and Convolutional Neural Networks that are well suited to sequential data, whereas vanilla feed-forward NNs are not designed to capture the ordered nature of the features.