Time Series 7-Day Forecasting with multi-layer perceptron (MLP)

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1.2 Imports

```
%load_ext autotime
%matplotlib inline
%cd /home/jovyan/work/ts-7day-mlp/
```

```
/home/jovyan/work/ts-7day-mlp
```

```
# This notebook needs to be connected to the machine used to save the profile file with pickle.dumps()
# Otherwise, pickle.loads() fails
import os, sys, pickle, gzip, lzma, bz2, zipfile, tarfile, shutil, glob, pathlib
import numpy, pandas, matplotlib, sklearn, tqdm, tqdm.keras, tqdm.sklearn, tqdm.pandas
from pprint import pprint, pformat
from IPYTHON import display, HTML
%load_ext autotime

# Ensure reproducibility
PYTHONHASHSEED = os.environ.get('PYTHONHASHSEED', '').strip(), os.environ.setdefault('PYTHONHASHSEED', '0')
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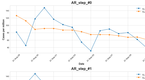
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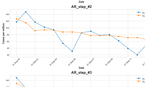
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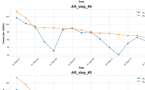
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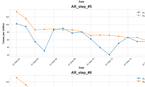
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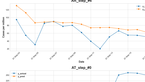
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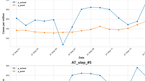
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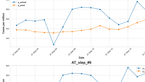
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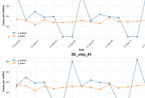
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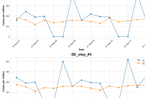
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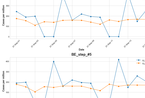
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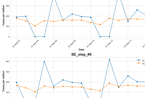
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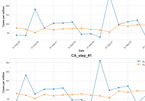
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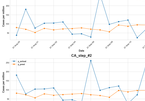
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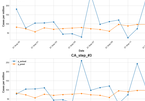
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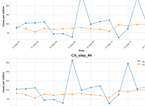
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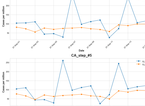
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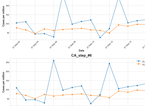
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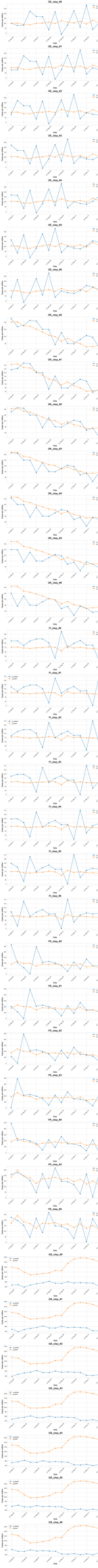
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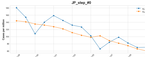
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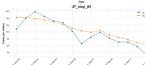
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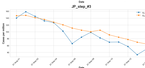
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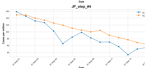
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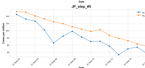
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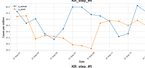
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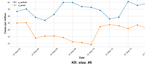
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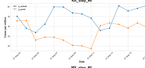
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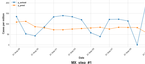
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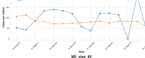
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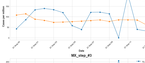
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Date
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L_LOAD

SO_step_03
Change of price
Date
C_LOAD
L_LOAD

SO_step_04
Change of price
Date
C_LOAD
L_LOAD

SO_step_05
Change of price
Date
C_LOAD
L_LOAD

SO_step_06
Change of price
Date
C_LOAD
L_LOAD

SU_step_R0
Change ratio
Date
L-LINEAR
L-LOG

SU_step_R1
Change ratio
Date
L-LINEAR
L-LOG

SU_step_R2
Change ratio
Date
L-LINEAR
L-LOG

SU_step_R3
Change ratio
Date
L-LINEAR
L-LOG

SU_step_R4
Change ratio
Date
L-LINEAR
L-LOG

SU_step_R5
Change ratio
Date
L-LINEAR
L-LOG

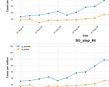
SU_step_R6
Change ratio
Date
L-LINEAR
L-LOG

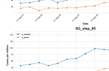
SG_step_R0
Change ratio
Date
L-LINEAR
L-LOG

SG_step_R1
Change ratio
Date
L-LINEAR
L-LOG

SG_step_R2
Change ratio
Date
L-LINEAR
L-LOG

SG_step_R3
Change ratio
Date
L-LINEAR
L-LOG


SG_step_R4
Change ratio
Date
L-LINEAR
L-LOG


SG_step_R5
Change ratio
Date
L-LINEAR
L-LOG

SG_step_R6
Change ratio
Date
L-LINEAR
L-LOG

US_step_R0
Change ratio
Date
L-LINEAR
L-LOG

US_step_R1
Change ratio
Date
L-LINEAR
L-LOG

US_step_R2
Change ratio
Date
L-LINEAR
L-LOG

US_step_R3
Change ratio
Date
L-LINEAR
L-LOG

US_step_R4
Change ratio
Date
L-LINEAR
L-LOG

US_step_R5
Change ratio
Date
L-LINEAR
L-LOG

US_step_R6
Change ratio
Date
L-LINEAR
L-LOG