Univariate TS Models	Pros	Cons
(S)ARIMA family	Very general approach, can exhaustively search for the optimal parameters	The process of search for parameters is very computationally expensive, poor long-term forecasting performance
ETS	Equivalent to SARIMA models with special orders so much less parameters to search for, less computation burden.	Naïve SRIMA models, worst flexibility; has the same disadvantages of SARIMAs
Prophet Multivariate TS Models	Very flexible, can add multiple seasonality components and holidays; perform well on long-term forecast	Only works well for linear or saturated growth trend; only works well for daily or sub- daily data
SARIMAX	Models the one-way relationship well one of the variables is the result (endogenous) from all the other variables (exdogenous); if the values of exdogenous features in the future are provided ,SARIMAX model works well	If the values of independent features in the future are not known, SARIMAX model does not perform well
VAR	Can model all variables simultaneously since we assume all variables are endogenous	Only assumes data being stationary, so have to difference out the trend and seasonality before fitting the model and reserve the differencing when forecasting
LSTM	Deep learning approach, input and output are very flexible we can define them however we want.	Interpretability is questionable