Automate Time Series Forcasting With AutoTS

Application In Different Industries

- Financial & Business Domain
- Public Health
- Weather Forcasting
- Astronomy Domain
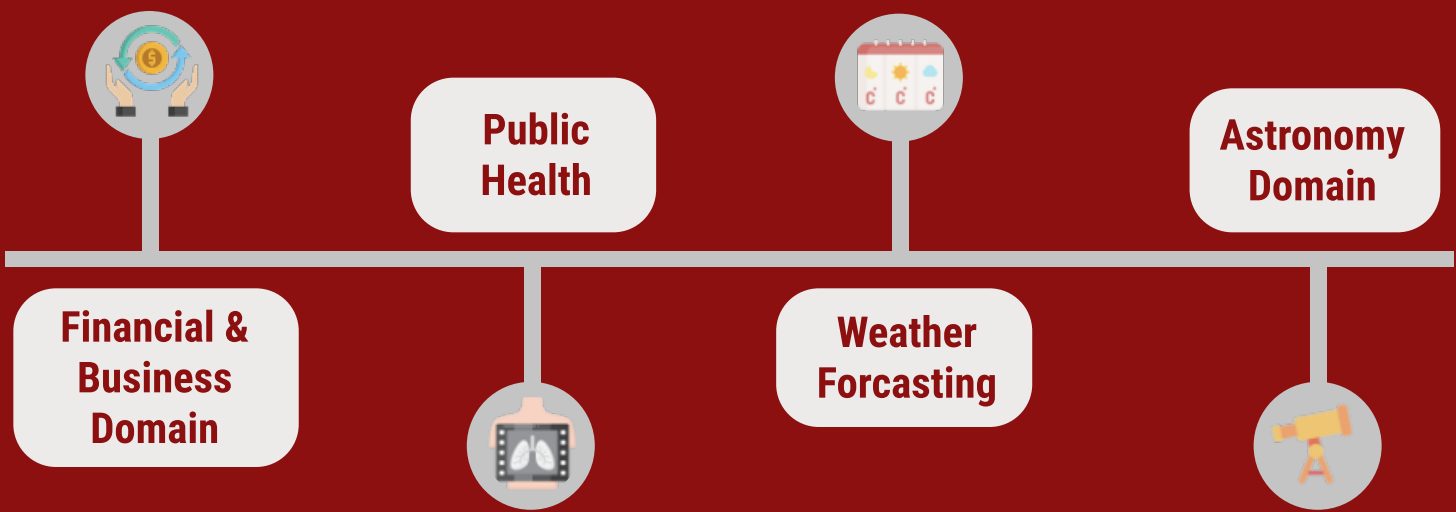
Difficulties of Time Series

- **Difficult to choose model**
- **Several params to tune**
- **Need extensive data preparation**

Advantages of AutoTS

20

Has around 20 built-in models

AUTO

Tune automatically

Optimal NaN imputation and outlier removal

Process Flow

Loading AutoTS package and preparing dataset

Initializing forcasting function and fitting the model

Selecting the best model and making prediction

Business Cases

UBER — Predict number of trips during special events, driver incentive allocation, as well as real-time anomaly detection across millions of metrics

Do the weekly revenue forecasts at a branch/ store level, ensuring that the annual sales target can be achieved smoothly — **Walmart**

Toyota — Build demand forecasts through vehicle sales and maintenance data, reducing inventory and logistics costs caused by surplus

Analyze the viewing data and provides real time accurate bookmarks and personalized recommendations — **Netflix**

CONTACT Team 6

Devansh Bhasin | bhasi018@umn.edu
Chien-Chu Hsu | hsu00122@umn.edu
Chu-Yun Hsiao | hsiao064@umn.edu

Vivian Ho | ho000155@umn.edu
Shu-Yun Liu | liu01727@umn.edu