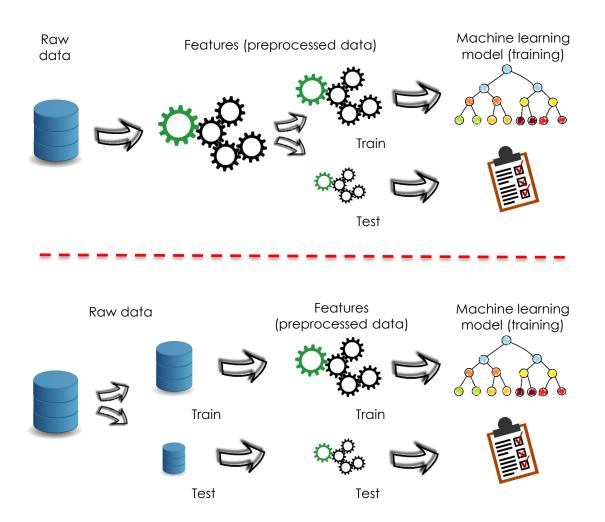
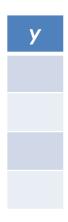
Feature Engineering in Forecasting

Considerations

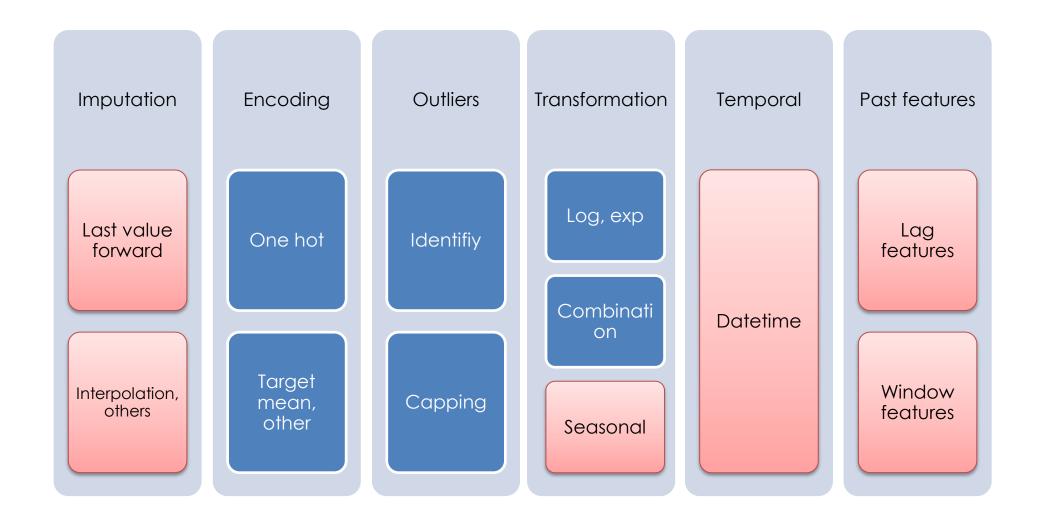
Machine learning workflow: forecasting

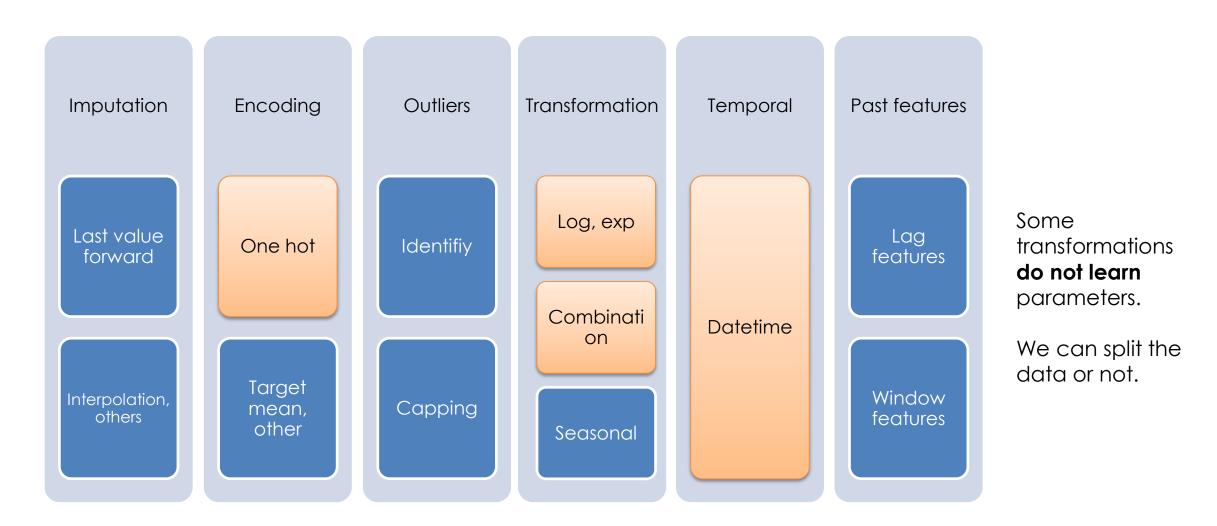


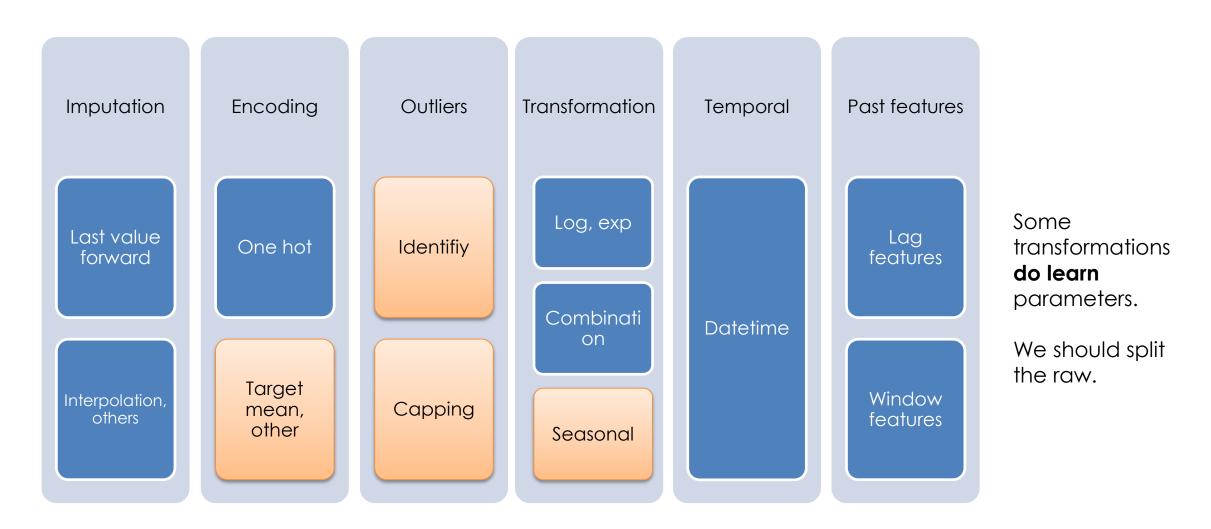
Time series data

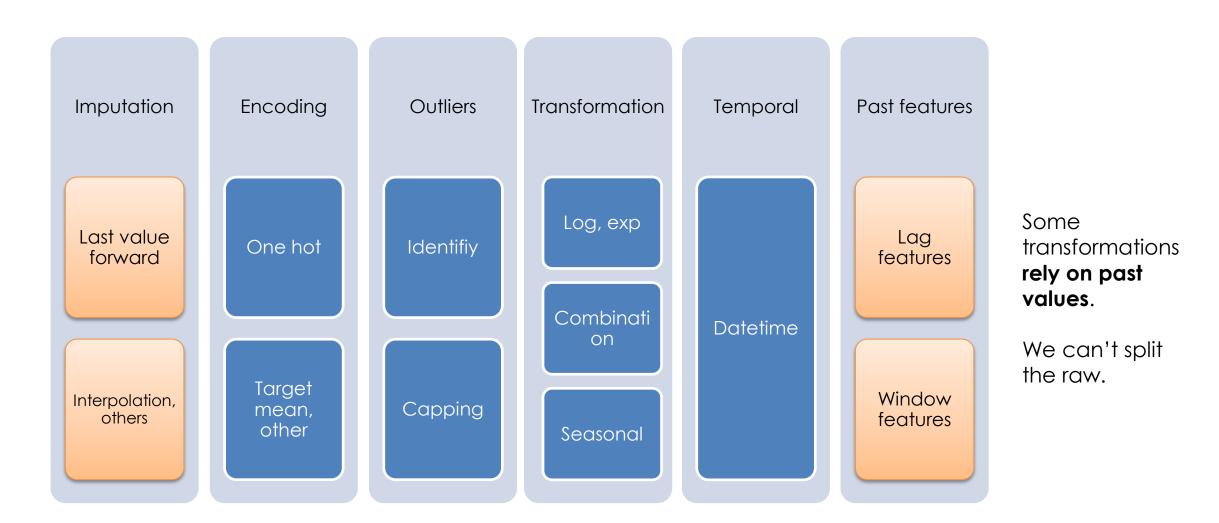


The raw data does not contain the input features.

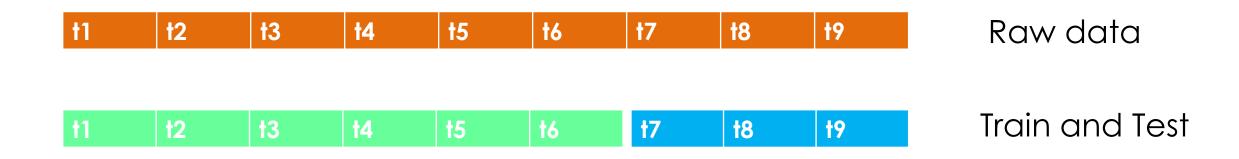






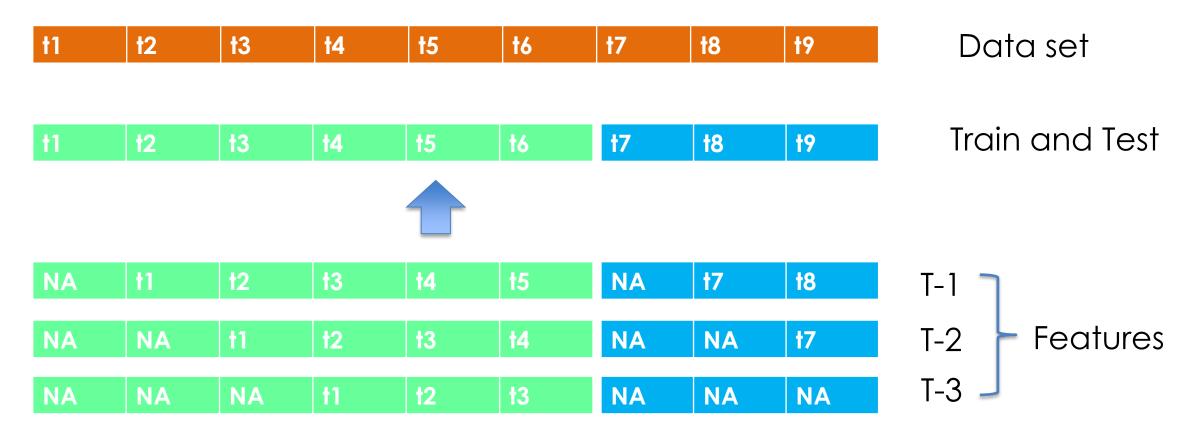


Train test split

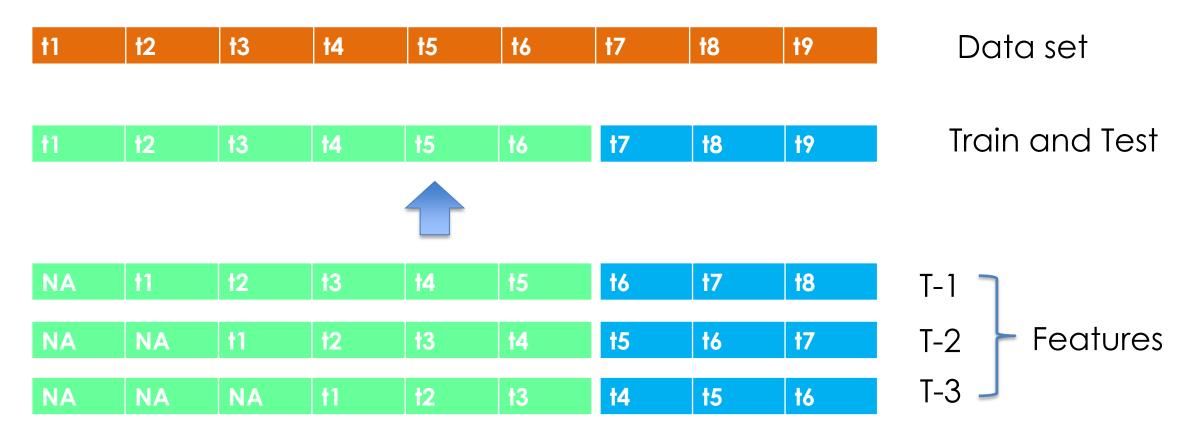


We separate the original dataset into a train and a test set.

Lag features – rely on past values



Lag features => bring value forward

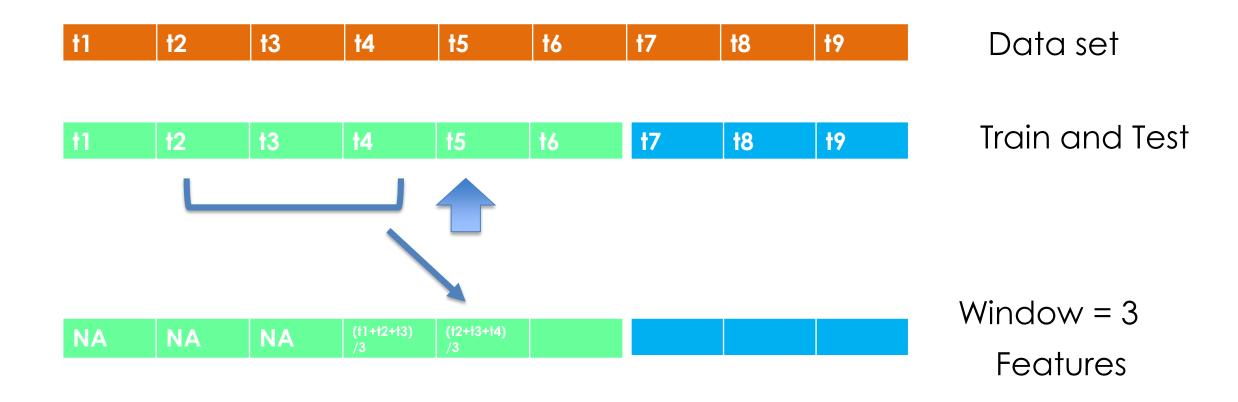


When actually we know the data...

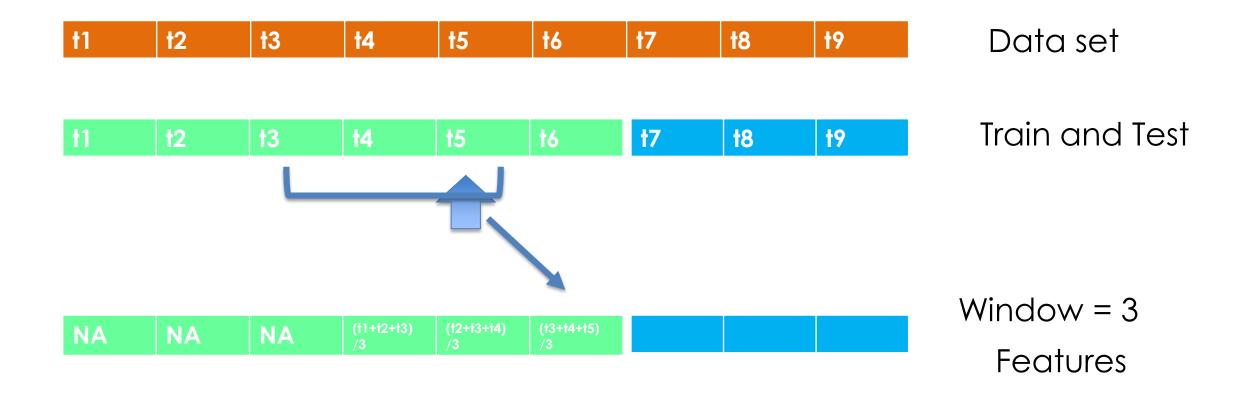
Window features – rely on past values



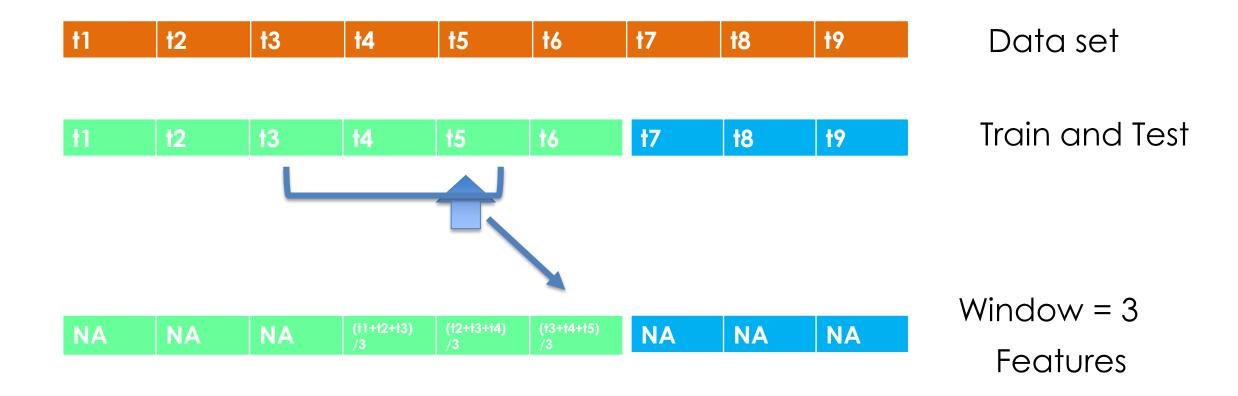
Window features – rely on past values



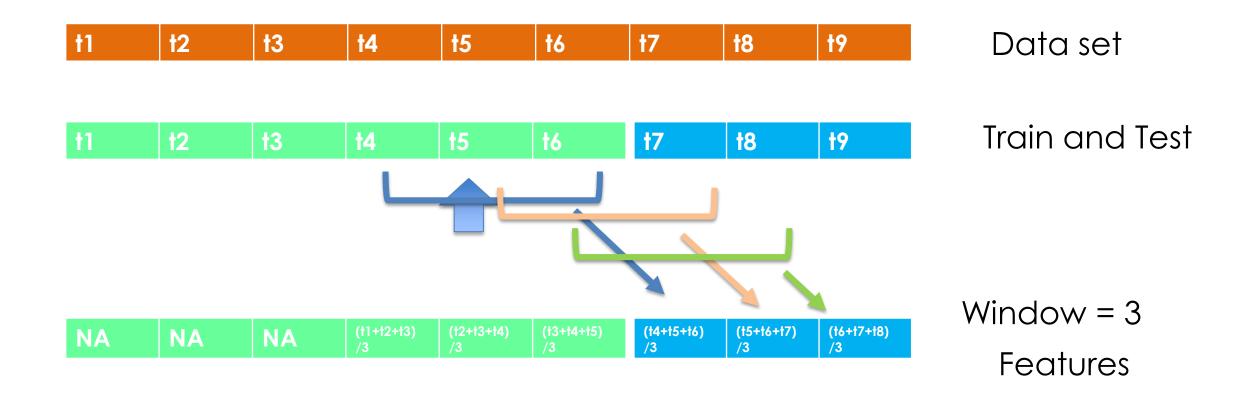
Window features



Window features – rely on past values

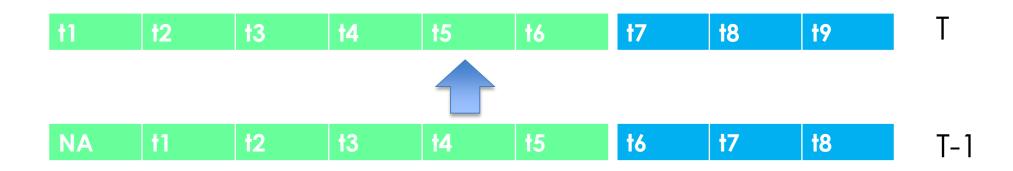


Window features: bring values forward



When actually we know the data...

Train test split in forecasting



- Train test split in forecasting does not always work.
- Careful with the data that we use to extract the features.
- No standardized approach workflow.