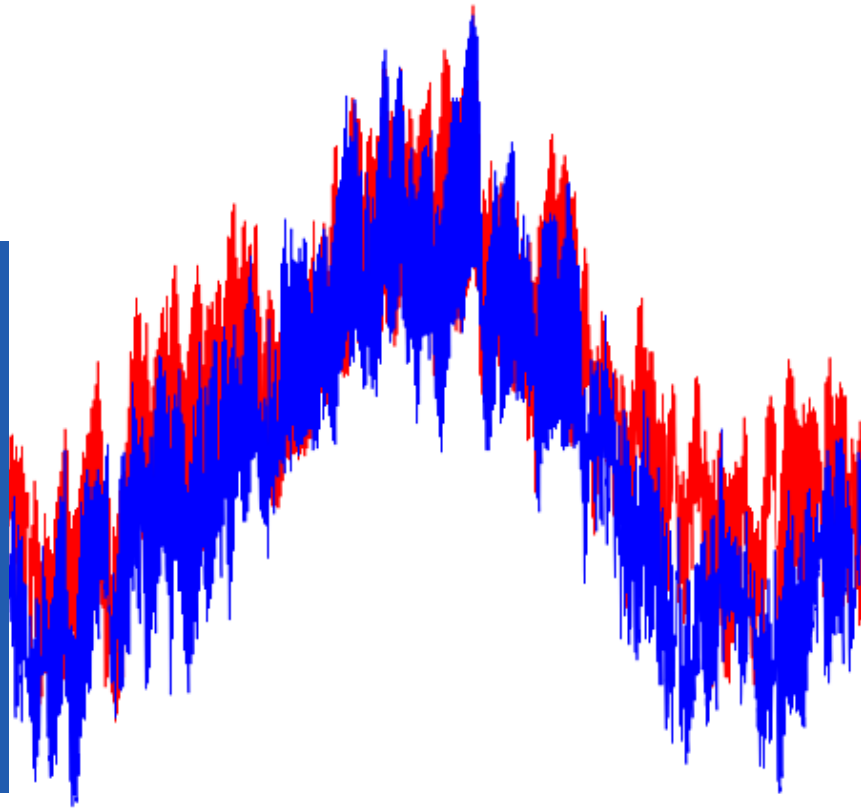
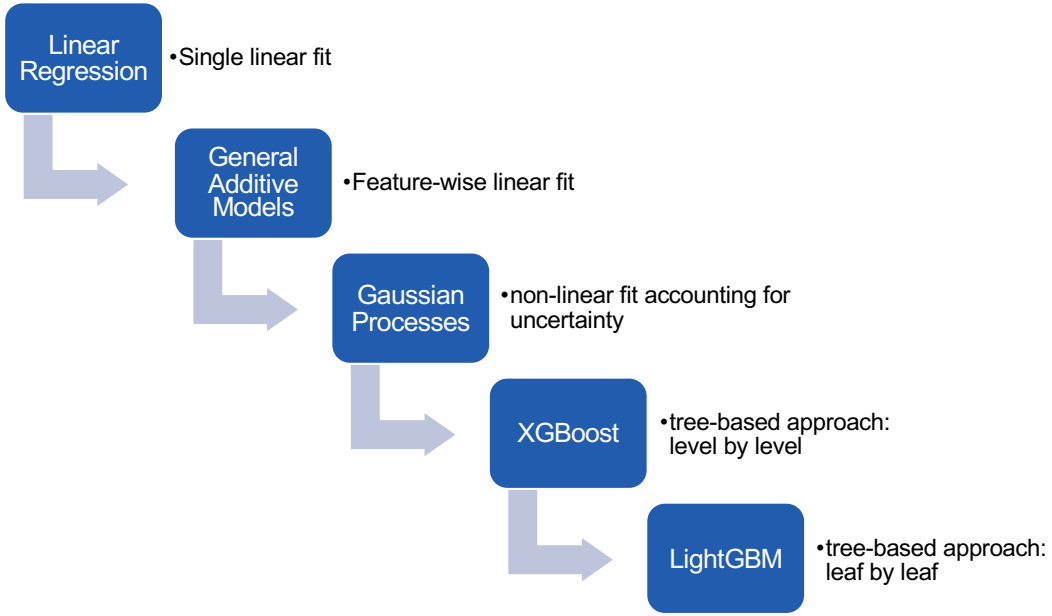
Analytics Club | ALPIQ

Datathon2025

Alpiq Challenge



Model Selection



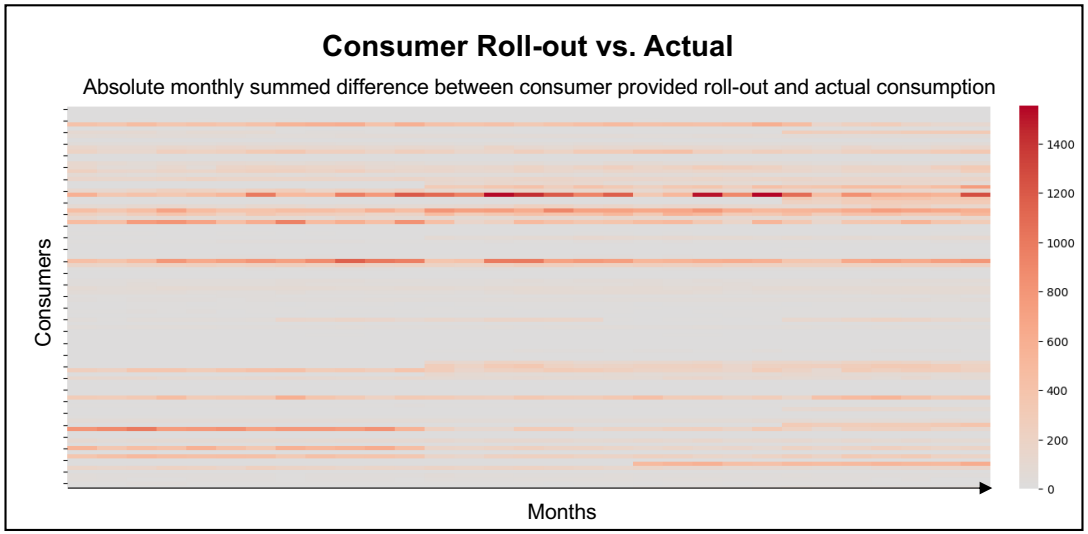
Feature Engineering & Data Imputation

Feature Engineering

- Binary encoding common off-days
  holidays + *weekends*
- Solar Photovoltaic
- Temperature
- Past Consumption
  $C_{t\text{-}1h}$, $C_{t\text{-}24h}$, $C_{t\text{-}30days}$, $C_{t\text{-}1year}$
- Past Fourier-transformed Consumption
  $Fc_{t\text{-}1h}$, $Fc_{t\text{-}14h}$, $Fc_{t\text{-}30days}$, $Fc_{t\text{-}1year}$

Data Imputation

- Feed-forward fill
- Backward fill
- Nearest-neighbor imputation
- Mean value imputation

Performance

- Improved roll-out predictions