

# Pal's Forecasting Team

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## Project Summary

- We propose utilizing deep learning architectures to enhance accuracy of electrical net load forecasting
- The forecast model accounts for diurnal, weekday/weekend, seasonal as well as weather-dependent variations to generate more precise net load forecasts in a reliable and efficient manner

## Technical Specification

- The aim is to utilize sequential learning algorithms for contextual feature extraction from time-series load consumption and weather data
- We employ these algorithms as they are capable of capturing dependencies between sequences even with large time step distances

## Deliverables

- ✓ Capture the dynamic behavior of electrical load consumption and improve the accuracy of electrical net load forecasting using advanced deep learning architectures

## Process Description

- We merge historical net load data with weather data to leverage existing correlations
- After appropriate data pre-processing, we train a sequential deep learning model for multi-step forecasting to predict the net load a day in advance

