

# ANALYSIS ON MACHINE LEARNING TECHNIQUES FOR TIME SERIES LOAD FORECASTING

## PROJECT OBJECTIVES

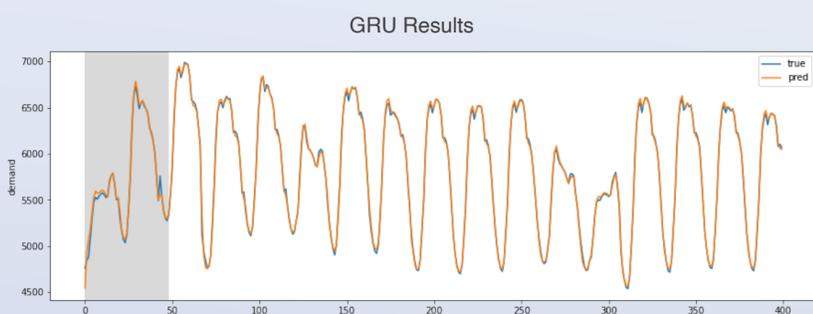
To design a simple Graphical User Interface (GUI) to help engineers understand and utilise common machine learning (ML) models to forecast electrical load demand.

## PROJECT SUMMARY

This project showcases a pre-built GUI with various ML models, such as Gated Recurrent Unit, Long Short-Term Memory and Convolutional Neural Network Models, that allow the user to better understand the various scenarios in which data science techniques can be applied.

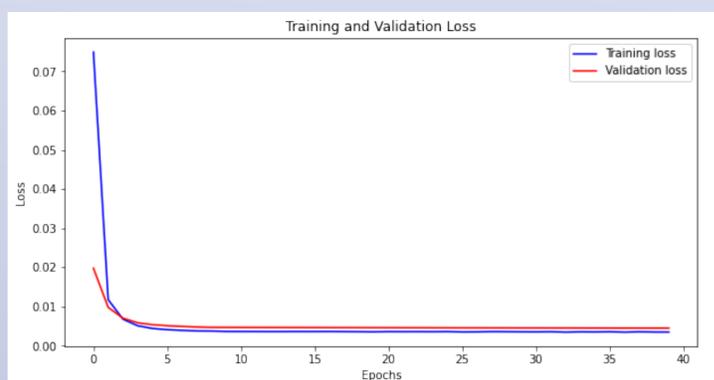
## PROJECT OUTCOMES

To showcase the use of various ML models for load forecasting and, in the process, inspire engineers to develop different problem-solving perspectives to augment the electrical engineering industry.

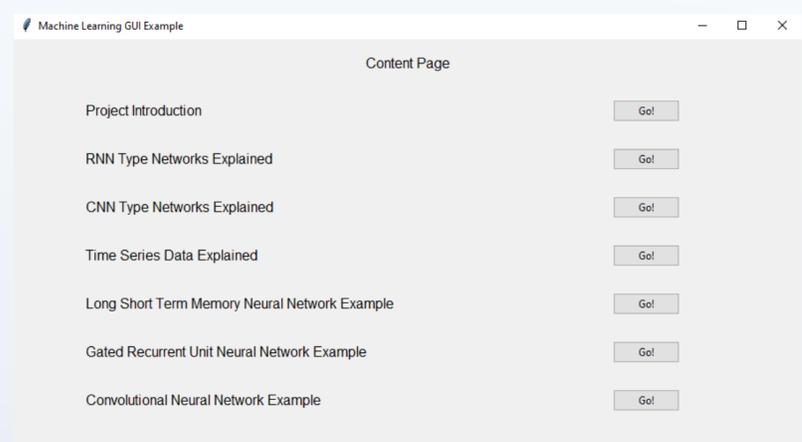


The image above shows how the result would look like, when the user will click on the GUI for different machine learning techniques: the predicted load demand and the errors.

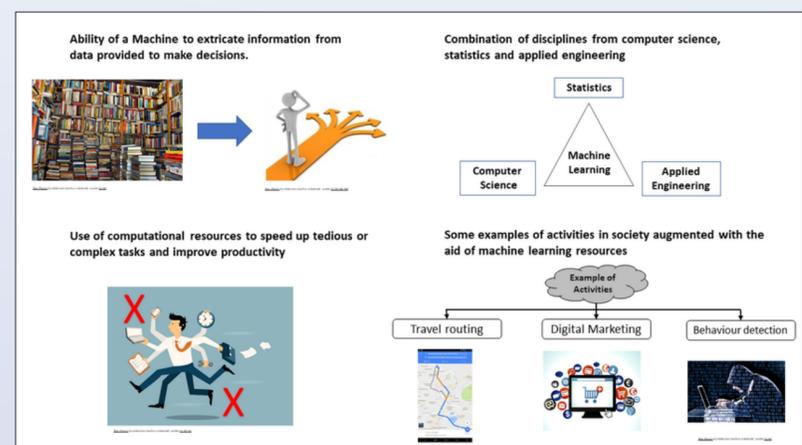
## GRU TRAINING



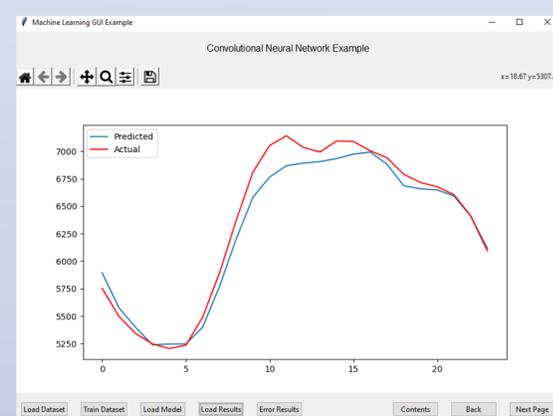
## GUI CONTENT PAGE



## GUI INTRODUCTION PAGE



## GUI MODEL PREDICTION PAGE



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