Group F MEETING MINUTES

Meeting/Project Name:	Spark	
Date of Meeting:	20/03/2022	**Time: 9-10 PM**
Minute Taker	Lany Cochon	**Location: MS Teams**

2. Attendees

Name	Role
Lany Cochon	Group Leader
Ella Pyman	Data Scientist
Justin Bloesch	Data Scientist
Assadullah Samir	Data Scientist
Jessica Navarro	Data Scientist

3. Meeting Agenda

Topic	Owner
Progress update	All
Discuss agenda for consultation meeting	All
Discuss schedule for week 4 consultation meeting	All
Reminder for Github uploads	All

4. Actions / Discussions

Topic	Owner
Progress update 1. Discuss each other's portion on the final project • Abstract (Ella) • 1. Introduction (Ella) • 2. Literature Review (Lany) • 3. Materials & Methods • 3.1 Software (Lany) • 3.2 Description of Data (Lany) • 3.3 Pre-processing steps (Jess work with Justin & Assad) • 3.4 Data Cleansing (Jess work with Justin & Assad) • 3.5 Assumptions (Jess work with Justin & Assad) • 3.6 Modelling Methods (Jess work with Justin & Assad) • 4. EDA (Ella work WIth Justin and Assad) • 4.1 Features present in the dataset and shape • 4.2 Data type of each column • 4.3 Encodling labels for classifcation problem ? • 4.4 Checking for missing vaue / outlier replacement • 4.5 Descriptive Summary of the dataset • 4.6 Checking the distribution of target variable • 4.7 Grouping the data based on target variable • 5. Analysis of Results and Discussion • 5.1 ARIMA – Baseline Model (Jess work with Justin) • 5.2 Temporal Fusion Transformer Model – Artificial Neural Network (Lany work with Assad) • 6. Conclusion and Further Issues	All

Discuss agenda for consultation meeting 1)TFT – Hyperparameter tuning issue - cannot do grid search - how to do grid search 1 parameter at a time - next parameter to tune - hyperparameter tuning no gpu on google collab - memory limited - temperature and holiday have been used - rain fall data (precipitation data) month by month .pdf export manually/encode to excel. (Ella will help export pdf to excel) 2) - key target was to beat AEMO, AEMO's forecasting mechanism, forecasting for different hour time variation. - Period ID, forecasting half an hour. - Idea on how AEMO is forecasting? - 1 day ahead, 0.5 hour ahead. Predispatch sequence, forecast - 0.5 ahead – 1 forecast - Half hourly window for whole year 3)Other set of model and what is Rohit's suggestion • XGBoost • LGBoost • LSTM – deep learning	n/a

4. Risks

Topic	Owner

5. Next Meeting

Date: (MM/DD/YYYY)	21/03/2022	**Time:**	6-7 PM	**Location:**	Collaborate
Objective:	Consultation Meeting				