

# Group F MEETING MINUTES

Meeting/Project Name:	Spark	
Date of Meeting:	21/03/2022	Time: 6-7 PM
Minute Taker	Lany	Location: Collaborate

## 2. Attendees

Name	Role
Justin	Data Scientist
Jessica	Data Engineer & Visualisation
Ella	Data Consultant
Assad	ML Consultant
Lany	Project Manager

### 3. Meeting Agenda

Topic	Owner
<p>1. Questions on the TFT (Temporal Fusion Transformer) Model</p> <ul style="list-style-type: none"> <li>Hyperparameter tuning issue (unable to grid search as it is slow and takes a lot of time)</li> <li>Temperature and holiday have been used in the data</li> <li>Asked if can use TFT on all other states (have to select time period as well?)</li> <li>Key objective is to beat AEMO (Australian Energy Market Operator) model, there are 79 predictions (period ID) in 1 half hour period, how do we decide which one to use?</li> </ul> <p>2. Ask Rohit for suggestions on what other models to try that would produce great results:</p> <ul style="list-style-type: none"> <li>Machine learning model (XGBoost, LGBM)</li> <li>Deep Learning model (LSTM)</li> </ul>	Assad

### 4. Actions / Discussions

Topic	Owner
Rohit suggested creating a base model for LSTM to compare results with Transformer Model as benchmark	Assad
TFT Hyperparameter tuning to be done one parameter at a time – elimination process	Assad
Assad asked if he can also create forecast using other states, Rohit suggested comparing first with baseline method LSTM for benchmarking of results and to justify that model is good.	Assad
Discussed on multi-step, the team advised that there are 64 units, timesteps is from 2015 with 9,000 inputs while all data are at 15,000 inputs. Parameter is 2 days' worth of data	Assad/Justin
Rohit explained why we use the Springer as final project template because it has less issues than the Project plan latex template. Also asked Rohit to advise on the timeframe for writing the report. He mentioned report writers create a template for the modelers to fill in for any test result or any images that need to be in the report.	Group F

Ask Oliver about how data has been sourced and how to choose the forecast period to use.	Group F
Book Michele on Thursday for the Final Project report consultation for next week	Group F

#### 4. Risks

Topic	Owner
Time available for drafting/writing the report as well as creating video presentation	Group F

#### 5. Next Meeting

<b>Date:</b> (MM/DD/YYYY)	27/03/2022	<b>Time:</b>	9-10 PM	<b>Location:</b>	MS Teams
<b>Objective:</b>	Weekly Meeting				