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| GROUP D – 8th Meeting minutes | |
| Location: | Virtual (Zoom) |
| Date: | 06/06/2021 |
| Time: | 7:30pm – 8:30pm |
| Facilitator: | Bahee Gnanasundram |

# Agenda Items

1. Discuss the progress of LSTM
2. Discuss the usage of Solar PV
3. Discuss the plan for Prediction
4. Working out action plan.

# Meeting Minutes

Start Time: 7:30pm

Finish Time: 8:30pm

Attendees: Bahee Gnanasundram, Maththew Seery, Rahul Lobo, Mohammad Ahsan Ullah

**Outcome:**

* 1. Matt improved the model with BIDIRECTIONAL with RMSE of about 70MW on test data.
  2. Bahee demonstrated that the Solar PV could not be used with our model with any kind of approximation as the available information in across the entire state and only cumulative monthly figure.
  3. Bahee discuss a plan to save the model and write a separate program to build the model using a fundamental algorithm of forecasting demand based on the first set of actual demand, then forecast on forecasted demand.
  4. Ahsan to explore independent implementation of models to see whether further improvement can be performed.
  5. Rahul to start looking at the report format and start compiling the necessary information.

# Action Items

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| Task | Name | Completion Date | Current Status |
| Meeting Minutes | Bahee | 16/05/2021 | Completed |
| Git Repository Setup | Matt | 16/05/2021 | Completed |
| Group Project Plan & | All | 18/05/2021 | Core work completed. Matt will make the submission on the 18th.  Completed on the 18th May |
| Check list | All | 18/05/2021 | All will respond individually based on the group decision.  Completed on the 18th May |
| Booking with a lecturer | Bahee | 14/05/2021 | Booking made with Gustavo Batista for 1PM-2PM, 18/05/2021 |
| Review Data | All | 24/05/2021 | Completed |
| Booking with a lecturer | Bahee | 24/05/2021 | Booking made with Michele for 3PM-4PM, 27/05/2021 |
| Preprocess Data | Matt, Bahee | 31/05/2021 | Completed on time |
| Document Data Visualization | Ahsan | 27/05/2021 | Completed on time |
| Statistical Analysis of data | Rahul | 31/05/2021 | Completed on time |
| LSTM | Matt | 8/06/2021 | Completed on time |
| Solar PV | Ahsan | 3/6/2021 | Provided monthly data on time |
| Review Model | Bahee, Rahul | 3/6/2021 | Review both MLP and LSTM. Completed on time. |
| Booking with a lecturer | Bahee | 3/6/2021 | Booking made with Michele for 7PM-8PM, 07/06/2021 |
| Solar PV | Bahee | 10/06/2021 | Will try to incorporate the Solar PV as input. |
| LSTM, MLP continuous improvement | Matt, Bahee | 10/06/2021 | Ongoing |
| Model Validation | Rahul and Ahsan | 10/06/2021 | Ongoing |
| Prediction Program | Bahee | 11/06/2021 | Will start working on it. |
| Exploring Alternative models and/or implementation | Ahsan | 11/06/2021 |  |
| Delegation of Report Tasks | Rahul | 11/06/2021 |  |