Peer Assessment and Self-reflection Proforma

Student ID: C21108612
Group number: 20
Project title: **Energy usage prediction**
Supervisor: **Hanzhi Wang**

Peer assessment

Member name	Contribution and justification	Marks
Azhar Usama	T3- Implementation + Results, Strong communication, participation, interaction between groupmates with excellent working skills	4
Francis Lewis	T3- Implementation + Results, Good communication, participation, interaction between groupmates with excellent working skills	3
Hewitt James	T2- Pre-processing + Literature review, Strong communication, participation, interaction between groupmates with excellent working skills	3
Jin Lekang	T1- Descriptive analysis of the dataset + Error analysis, Decent communication, participation, interaction between groupmates	2
Li Shang	T1- Descriptive analysis of the dataset + Error analysis, Strong communication, participation, interaction between groupmates with excellent working skills	3
Rees Owen	T2- Pre-processing + Literature review, Strong communication, participation, interaction between groupmates with excellent working skills	3
Zhang Jinkai	T1- Descriptive analysis of the dataset + Error analysis, Decent communication, participation, interaction between groupmates	2

Self-reflection

For my final project on Machine Learning, I have explored the area of Energy-related issues in 'Energy Prediction'. I have done substantial research on the issues of Energy while predicting it in machine learning. While working on the project, my role was to work on the pre-processing and literature review. Firstly, I received data of visualizations from box plots and several other sources of data visualizations. After receiving all the data, I started analyzing the received data bank and identified the non-ideal characteristics of the data with the aim of achieving the best classification performance. As I moved forward with the project, I started the outlier treatment and tried to identify outliers and non-outlier's observations by adding new features to the dataset. After that, I worked with neural network data pre-processing and supervised learning pre-processing models to pre-process the data. In this process, I have added two features as follows, 'Seasons' and 'inDaytime', to pre-process. After finishing the pre-processing part, I contributed to the conclusion, and I tried to predict in the future how we can overcome computational power and time. In the process of working, I faced a lot of trouble working with a machine learning project in google Colab, and the output was crashing several times in the process. We tried various methods to solve the problem. After the discussions, we realized that in Google Colab plus, we had to divide the data into two halves, and then we received the desired results. Working in a team gave me strength in my skills, and I learned a lot from my colleagues. I

also have contributed to the assignment of the Kaggle challenge, which was on the similar subject of energy prediction suggested by our supervisor 'Hanzi Wang, to participate. Overall, I have done my best for the assignment with the team.