Project Charter

Project Name	**Rain Prediction By Neural Network For Classification**
Project Description	Weather forecasting plays a crucial role in various sectors such as agriculture, transportation, and disaster management. This project focuses on using neural networks for rain prediction, leveraging historical weather data for accurate classification.
Project Objectives	• Develop a neural network model to classify weather conditions into "rain" or "no rain" categories. • Utilize features such as temperature, humidity, wind speed, and atmospheric pressure for training the model. • Enhance the accuracy of rain prediction to aid in better decision-making and planning.
Project Participants	Marshitah Binti Azhar (Project Manager) Aliyah Najma Binti Nadzri (QA Engineer) Siti Azalia Binti Mehat (Developer) Priyadharshni A/P Mohanathan (Developer)
Available Resources	• Laptop(Intel i5, 10th gen, 8gb ram, Intel iris graphics) • Pycharm, Jupyter notebook
Milestones	1. Data collection 2. Data Preprocessing 3. Feature engineering(Feature Engineering) 4. Train/Test split 5. Neural Network ANN implementation 6. ANN architecture optimization 7. Model testing 8. Model validation 9. Model deployment
Potential Risks	1. The model might be trained with a lot of training data which will result in overfitting. 2. The team might have lack of time due to the limited resources available as ANN is quite heavy for basic laptop.
Approval	Project Manager : Marshitah Binti Azhar Signature : Marshitah Date : 22/11/2023