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**Model Development Phase Template**

| Date | 24 April 2024 |
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| Team ID | 740140 |
| Project Title | Crystal Ball Analysis: Projecting Share Prices Of The Leading Gpu Titans |
| Maximum Marks | 10 Marks |

**Initial Model Training Code, Model Validation and Evaluation Report**

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include a summary and training and validation performance metrics for multiple models, presented through respective screenshots.

**Initial Model Training Code (5 marks):**

Paste the screenshot of the model training code

**Model Validation and Evaluation Report (5 marks):**

| **Model** | **Summary** | **Training and Validation Performance Metrics** |
| --- | --- | --- |
| Model 1 | For a Linear Regression model, performance metrics include Mean Absolute Error (MAE) which measures average absolute errors, Mean Squared Error (MSE) which squares the errors to penalize larger deviations, and R-squared which indicates the proportion of variance in the dependent variable explained by the model. |  |
| Model 2 | Decision tree classifier model commonly include accuracy, precision, recall, F1 score which help assess the model's prediction accuracy and generalizability |  |