**Model Development Phase Template**

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| Date | 9/7/24 |
| Team ID | SWTID1720100721 |
| Project Title | Machine Learning Approach to Predict Price of Natural Gas |
| Maximum Marks | 6 Marks |

**Model Selection Report:**

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| **Model** | **Description** | **Hyperparameters** | **Performance Metric (e.g., Accuracy, F1 Score)** |
| Model 1 | Decision Tree Regressor | {'criterion': 'friedman\_mse', 'max\_depth': 10, 'min\_samples\_split': 10, 'splitter': 'best'} | r2\_score = 0.9683899463377701 |
| Model 2 | Random Forest Regressor | Hyperparameters used | r2\_score = 0.98577751167200770 |