**Model Development Phase Template**

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| --- | --- |
| Date | 1/7/24 |
| Team ID | SWTID1720100721 |
| Project Title | Machine Learning Approach to Predict Price of Natural Gas |
| Maximum Marks | 5 Marks |

**Feature Selection Report Template**

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| --- | --- | --- | --- |
| **Feature** | **Description** | **Selected (Yes/No)** | **Reasoning** |
| Date | Original date column | No | Removed to avoid datetime issues and to extract relevant features |
| Day | Day of the week (Monday to Sunday) | Yes | Added to capture weekly demand patterns |
| Month | Month of the year (January to December) | Yes | Added to capture monthly demand patterns |
| Year | Year of the data | Yes | Added to capture yearly trends and patterns |
| Historical Prices | Daily/Monthly natural gas prices | Yes | Included to capture price trends and patterns |