**Model Development Phase Template**

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| Date | 13 July 2024 |
| Team ID | SWTID1720157891 |
| Project Title | Rice Classification using CNN |
| Maximum Marks | 5 Marks |

**Model Selection Report**

In the model selection report for future deep learning and computer vision projects, various architectures, such as CNNs or RNNs, will be evaluated. Factors such as performance, complexity, and computational requirements will be considered to determine the most suitable model for the task at hand.

**Model Selection Report:**

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| **Model** | **Description** |
| Model 1 | The standard CNN model is a deep learning model designed for image classification tasks. It consists of multiple convolutional layers followed by pooling layers, fully connected layers, and a softmax output layer.  **Key Features:**   * Standard architecture with convolutional, pooling, and fully connected layers. * No hyperparameter tuning applied. |
| Model 2 | The hyper-tuned CNN model is the same architecture as the standard CNN but with optimized hyperparameters. Hyperparameter tuning was performed using grid search to find the best combination of hyperparameters.  **Key Features:**   * Same base architecture as the standard CNN. * Hyperparameters optimized for improved performance. |
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