**Model Development Phase Template**

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| Date | 11 July 2024 |
| Team ID | SWTID1720067113 |
| Project Title | Dog Breed Identification using Transfer Learning |
| 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  (MobileNetV2) | MobileNetV2 is a deep convolutional neural network architecture designed for mobile and embedded vision applications. It emphasizes efficiency and small model size while maintaining good accuracy in various computer vision tasks like image classification and object detection. |
| Model 2  (VGG19) | VGG-19 is a deep convolutional neural network architecture known for its simplicity and effectiveness. It consists of 19 layers (16 convolutional and 3 fully connected layers) and has been widely used as a benchmark in image classification tasks due to its strong performance and straightforward architecture. |
| Model 3  (EfficientNetB7) | EfficientNet-B7 is part of the EfficientNet family of neural network architectures, which are designed to achieve state-of-the-art accuracy with increased efficiency. EfficientNet-B7 specifically is one of the largest models in the family, capable of achieving high accuracy while being computationally efficient, making it suitable for a wide range of tasks including image classification and object detection |