**Model Development Phase**

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| Date | 15 March 2024 |
| Team ID | 739675 |
| Project Title | Cleantech: Transforming Waste Management With Transfer Learning |
| Maximum Marks | 5 Marks |

**Model Selection Report**

In the model selection report for Transfer learning involves leveraging pre-trained models on large datasets (like ImageNet) and fine-tuning them for specific tasks, such as waste classification.

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| **Model** | **Description** |
| Model 1  (vgg16)  Transfer  Learning | **Description**: In the context of Clean tech's initiative to revolutionize waste management through advanced technologies, the VGG16 model, enhanced via transfer learning, serves as a foundational approach for automated waste classification.  **Performance**: High accuracy due to deep architecture and transfer learning.  **Complexity**: Moderate to high (138 million parameters). **Computational Requirements**: High (requires significant GPU resources). |