Model Development Phase Template

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| Date | 25 June 2025 |
| Team ID | SWTID1749974387 |
| Project Title | Neural Networks Ahoy: Cutting-edge Ship Classification for Maritime Mastery |
| Maximum Marks | 6 Marks |

**Model Selection Report**

In the forthcoming Model Selection Report, various models will be outlined, detailing their descriptions, hyperparameters, and performance metrics, including Accuracy or F1 Score. This comprehensive report will provide insights into the chosen models and their effectiveness.

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| **Model** | **Description** | **Hyperparameters** | **Performance Metric (e.g., Accuracy, F1 Score)** |
| VGG-16(  Transfer Learning) | Pretrained CNN on ImageNet; fine-tuned for ship classification; strong at feature extraction. | Learning Rate = 1e-4, Batch Size = 32, Adam optimizer | Accuracy score =  95% |