

Model Development Phase Template

Date	7th July 2025
Team ID	SWTID1750822736
Project Title	Fault detection using transfer learning
Maximum Marks	5 Marks

Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and improving transparency in feature choice.

Feature	Description	Selected (Yes/No)	Reasoning
Image	Input product image	Yes	Primary input for fault detection using CNN.
Label	Product fault class	Yes	Target variable required for supervised learning.
Image Dimensions	Size of image (e.g., 224x224)	Yes	Essential for standardizing input shape for the model.
Color Channels	RGB color channels	Yes	Relevant for image representation and model learning.
Preprocessed Image	Normalized and augmented version of image	Yes	Improves model performance and generalization.