

Model Development Phase Template

Date	2-07-24
Team ID	SWTID1720073336
Project Title	Dog Breed Identification 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 enhance transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
Image ID	Unique identifier for each image	No	For predicting the breed, an Image ID is not required.
Image	The actual image of the dog	Yes	The primary input required for identifying the breed.
Breed Label	The breed of the dog	Yes	The target variable for predictive modeling – essential for the project's goal.
Image Size	Dimensions of the image	Yes	Important for preprocessing and ensuring consistency in input data

Color Histogram	Color distribution in the image	Yes	Can provide additional features that might help in breed identification.
Texture Features	Surface texture details of the dog's fur	Yes	Helps in distinguishing breeds with similar colors but different fur textures.
Shape features	Shape of the dog (outline, body structure)	Yes	Crucial for identifying breeds with distinct shapes and sizes.
Background Information	Details about the background of the image	No	Not relevant for breed identification, focusing on the dog itself.
Owner Information	Information about the dog's owner	No	Not relevant for breed identification.
Location Metadata	Where the image was taken	No	Not relevant for breed identification.
Camera Specifications	Details about the camera used	No	Not relevant for breed identification.
Date and Time	When the image was taken	No	Not relevant for breed identification.
Breed Standard descriptions	Textual descriptions of breed standards	Yes	Provides additional context and features that help in identification.
Facial landmarks	Key points on the dog's face	Yes	Helps in identifying breeds with unique facial structures.

