

Ideation Phase

Brainstorm & Idea Prioritization

Date	22 January 2025
Team ID	LTVIP2026TMIDS53438
Project Name	Dog Breed Identification Using Transfer Learning
Maximum Marks	4 Marks

Step 1: Team Gathering & Problem Selection

Our team discussed real-world problems related to animal care and pet management. We observed that many people struggle to identify dog breeds accurately, especially when they encounter unfamiliar or mixed breeds.

After evaluating different problem statements, we selected the key problem:

People lack an easy and reliable way to identify dog breeds from images.

Step 2: Brainstorming – Idea Listing & Grouping

- Mobile App for Dog Breed Detection – a smartphone app that identifies dog breeds using the camera.
- Web-based Dog Breed Prediction System – a website where users upload a dog image and receive breed predictions.
- Veterinary Support Tool – helps veterinarians and shelters identify breeds quickly.
- Dog Information & Care Guide – identifies the breed and provides care tips and characteristics.
- AI-powered Pet Recognition System – recognizes pets and stores pet records.

Grouping of Ideas

- Group A – Detection Systems: Mobile app detection, Web-based prediction system, Veterinary support tool
- Group B – Information Systems: Dog care guide, Breed characteristics system
- Group C – Advanced AI Systems: AI pet recognition & database

Step 3: Idea Prioritization

Selected Idea: Web-based Dog Breed Prediction System

- Easy to develop and deploy
- Useful for pet owners and veterinarians
- High real-world impact
- Can be built using deep learning and Flask
- Scalable for future enhancements

Final Concept

The final solution is a Dog Breed Prediction System that uses deep learning to analyze uploaded dog images and predict the breed through a user-friendly web interface.