# IDEATIONPHASE:EMPATHYMAP CANVAS

**TeamID:** LTVIP2026TMIDS24615

**ProjectName:**AI-PoweredDogBreedIdentificationusingTransfer Learning

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**EMPATHYMAP:UnderstandingtheUser(PetOwner/Shelter Volunteer)**

| **SAY&DO** | **THINK&FEEL** |
|---|---|
| *"Iwonderwhatspecific breed this dog is?" | *I**think**it'saGoldenRetriever,butit might be a Labrador mix. |
| *"Ineedafastwaytoidentify this dog without an expert." | *I**feel**frustratedwhenIcan'tfind reliable information quickly. |
| *UploadsaJPG/PNGimage to the Gradio web interface. | *I**hope**theAIisaccurateenoughto tell the difference between similar breeds. |
| *Checkstheconfidence scoretoverifytheresult. | * I **feel** more confident when I see a highpercentagescore(e.g.,87.3%). |

| HEAR | SEE |
| --- | --- |
| *Friendssaying,"Thatlookslikea rare breed; you should check." | *Avarietyofdogsthatlookvery similar but belong to different classes. |
| *Expertsmentioningthatmanual identification is prone to error. | *AprofessionalGradiointerface with a clean, "Soft" theme. |
| *TechnicalnewsabouthowAIand MobileNetV2 are making apps faster. | *Instantresultsappearinginless than 2 seconds after uploading. |
| *UsersdiscussingGitHub-ready tools for animal welfare. | *Aclear"Notconfident"message if the image is unclear or not a dog. |

## PAIN&GAIN

**PAINS(Challenges):**

- **Complexity:**Highvisualsimilaritybetween120differentbreedsmakes manual identification difficult.
- **Time:**Waitingforexpertfeedbackorsearchingthroughbooksistooslow.
- **Accuracy:**Fearofmisidentifyingabreedwhichcouldaffecthealthorcare decisions.

## (GAINSGoals/Benefits):

- **Efficiency:** Achieving 67.26% validation accuracy in just seconds.
- **Accessibility:** A mobile-responsive web app available to anyone with a link.
- **Confidence:**Usingasystemwithprofessionalvisualizationandclear confidence thresholding.