AI-Based Pet Skin Disease Detection System

Pet owners often overlook early signs of skin diseases in their pets due to a lack of awareness or access to immediate veterinary care. Skin issues such as infections, allergies, or fungal diseases can become severe if not detected early.The problem lies in the absence of an accessible, AI-driven tool that can analyze pet images and detect visible signs of skin diseases automatically.

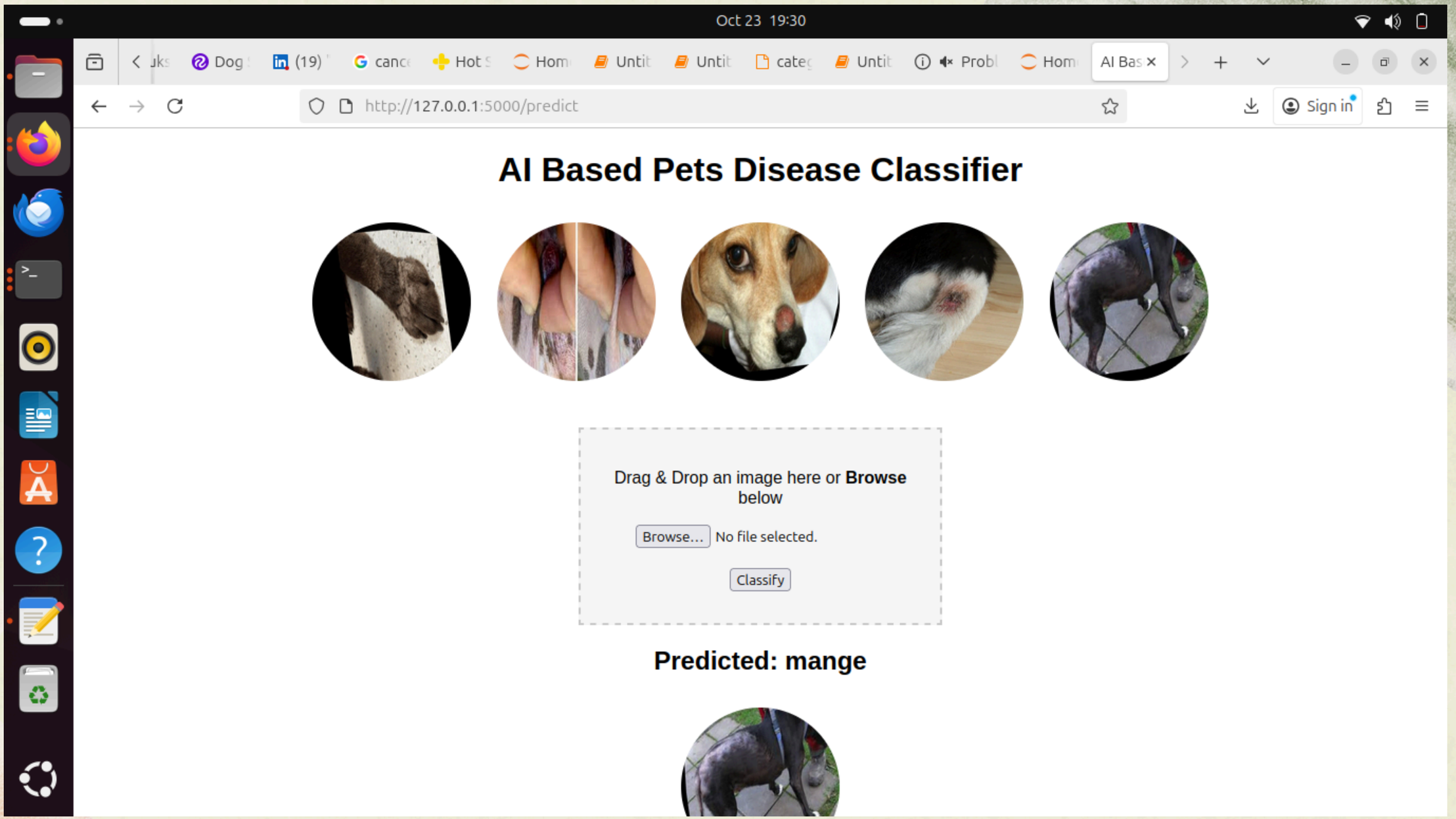
Team-ACR

PRESENTED BY :

P.ANUSHA(B200563)
B.CHAITHANYA(B200874)
P.AKSHAYA(B201620)
D.RISHITHA(B201278)
G.ANUSHA(B200816)

2.Tools and Technologies Used:

- **FRONTEND:**HTML, CSS, JavaScript (or React.js for advanced UI)
- **BACKEND:**Flask ,AI &ML,PYTORCH/KERAS.
- **Image Processing:**OpenCV
- **IDE/Editor:**VS Code / Jupyter Notebook


Oct 23 19:30
http://127.0.0.1:5000/predict
Sign in
AI Based Pets Disease Classifier
Drag & Drop an image here or Browse below
Browse...
No file selected.
Classify
Predicted: mange

below

Browse... No file selected.

Classify

Predicted: mange

Prediction Probabilities:

Player	Probability (%)
cancer	5.74
flea_allergy	13.83
hotspot	23.38
mange	29.39
ringworm	27.66

- By upload or drag & drop a pet image for analysis.
- After uploading, it classifies the disease from the pet's image (in this case, it predicted "mange").
- Below, it displays a probability table showing how likely the image belongs to each disease category.,

Cancer: 5.74%
Flea allergy: 13.83%
Hotspot: 23.38%
Mange: 29.39% ✅ (highest, hence predicted)
Ringworm: 27.66%

Extenstion:

- In the future, this project can be extended to predict diseases for all types of pets (such as dogs, cats, and other domestic animals) using image data. By integrating GPU-based processing, the model's training and prediction speed can be greatly improved.

- Faster and more accurate disease detection for every pet and every disease.
- Reducing doctors' diagnostic time, enabling them to quickly identify the condition.
- Assisting veterinarians in providing better and more efficient treatment.
- Minimizing manual work and ensuring higher accuracy and reliability in results.


Thank
you!