

DVARA E-DAIRY

CODING ROUND



ABOUT US

Dvara E-Dairy is focused on solving problems of dairy farmers by deploying new-age technologies and provide access to financial services. It creates synergy between dairy farmers and lending institutions and assists them to take informed decisions. The solutions will help dairy farmers to track health of cattle and improve income.

ADDRESS

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RECOMMENDED STACK

- Python
- Jupyter

PROBLEM STATEMENT

1. In the attachment, there are three folders named Cattle1, Cattle2 and Test.
2. Under Cattle1 and Cattle2, there are 3 images belonging to those cattle.
3. Under Test folder there are 4 test images.
4. Define an algorithm that would generate distinguishing features from a muzzle pattern image and hence, given a set of test and query image as input, the algo should return Match or No Match.
5. Note: This is not an image classification problem.

OUTPUT EXPECTED

- Update the attached result sheet column C with Match/ No Match for each Test and Query image pair.

For reference:

A	B	C
Test Image	Query Image	Match/ No Match
test1	Cattle1_1	Match
test1	Cattle1_2	Match
test1	Cattle1_3	No Match

- Approach document with any link to papers or github code etc
- Please share Approach document in case the entire working code is not developed.

RECOMMENDATION

- Do internal testing and make any other assumption.

EVALUATION

- Code may be used to test other images for accuracy.
- Approach document