

Pengenalan Wajah dengan Deepface

Anggota Kelompok :

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Hasil Eksplorasi

Berdasarkan eksplorasi pengenalan wajah menggunakan DeepFace menghasilkan output sebagai berikut :

Dataset yang digunakan :

- Jumlah Foto di referensi : 33
- Jumlah foto di data tes : 50 (22 known & 28 unknown)

Tabel Akurasi dan Model yang digunakan

No	Model	Backend	Distance	Akurasi
1.	ArcFace	retinaface	cosine	No. of test data = 50 No. of correct recognition = 39 Accuracy = 78.0 %
2.	VGG-Face	retinaface	cosine	No. of test data = 50 No. of correct recognition = 17 Accuracy = 34.0 %
3.	Facenet	retinaface	cosine	No. of test data = 50 No. of correct recognition = 34 Accuracy = 68.0 %

No	Model	Backend	Distance	Akurasi
4.	Facenet512	retinaface	cosine	No. of test data = 50 No. of correct recognition = 37 Accuracy = 74.0 %
5.	OpenFace	retinaface	cosine	No. of test data = 50 No. of correct recognition = 28 Accuracy = 56.00000000000001 %
6.	DeepFace	retinaface	cosine	No. of test data = 50 No. of correct recognition = 12 Accuracy = 24.0 %
7.	DeepID	retinaface	cosine	No. of test data = 50 No. of correct recognition = 26 Accuracy = 52.0 %
8.	Dlib	retinaface	cosine	No. of test data = 50 No. of correct recognition = 26 Accuracy = 52.0 %

Kesimpulan :

Hasil Percobaan menunjukan Model ArcFace dengan Backend Face Detection : RetinaFace dan Distance Metric : Cosine menghasilkan akurasi yang tinggi dibandingkan dengan model yang lain dengan parameter yang sama

Note : Dalam percobaan yang lain, Model "Facenet512" dengan Backend "mtcnn" dan Distance "cosine" juga memiliki akurasi yang sama yaitu sebesar 78%, model Untuk Contoh Percobaan dengan Parameter yang lain ada di File Excel Percobaan

Hasil Percobaan Model ArcFace dengan Backend Face Detection : RetinaFace dan Distance Metric



/content/drive/MyDrive/Program/deepfacetask/images/test/leni-fitriani2.png



unknown



/content/drive/MyDrive/Program/deepfacetask/images/test/handoko-supeno3.jpg



/content/drive/MyDrive/Program/deepfacetask/images/referensi/varuliantor-dear.jpg



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unknown



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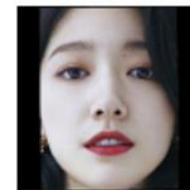
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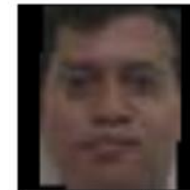
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unknown



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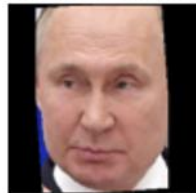
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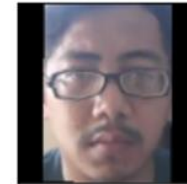
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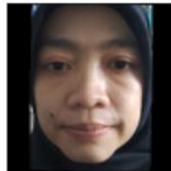
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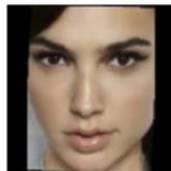
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unknown



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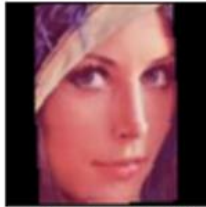
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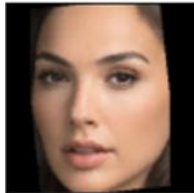
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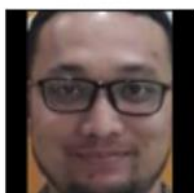
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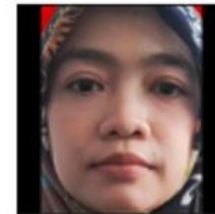
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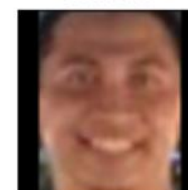
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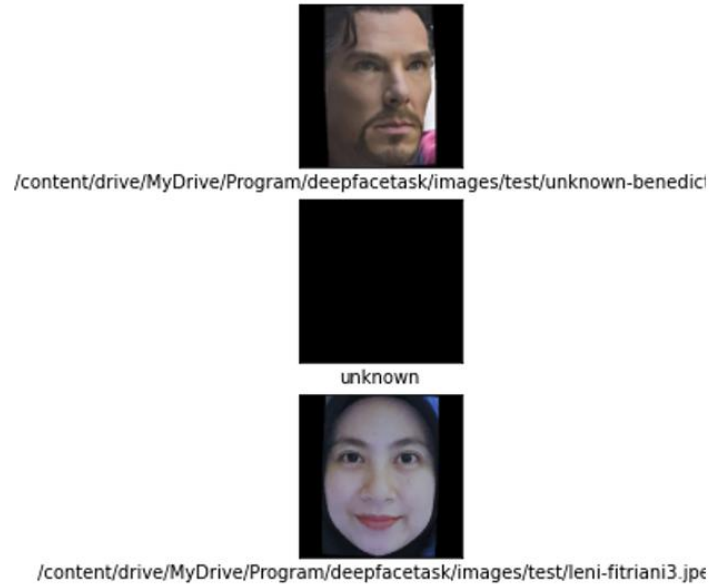
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unknown



Recognition List dan Akurasi serta Nilai Kebenarannya

1. leni-fitriani2.png, leni-fitriani.jpg, 0.22450903358704088, leni, True
2. unknown-lena.jpeg, -, 1000, unknown, True
3. unknown-ridwan-kamil.jpg, varuliantor-dear.jpg, 0.5161593193947438, varuliantor, False
4. handoko-supeno3.jpg, handoko-supeno2.jpg, 0.5172503861010826, handoko, True
5. unknown-junaedi.png, varuliantor-dear.jpg, 0.5774610513228389, unknown, True

6. imam-ekowicaksono3.jpg, sartono-arief.jpg, 0.5636180970109939, unknown, False
7. dewi-tresnawati2.jpg, dewi-tresnawati.jpg, 0.31190735439665773, dewi, True
8. rahman-indra4.jpeg, varuliantor-dear.jpg, 0.5754758598025361, unknown, False
9. unknown-sby.png, handoko-supeno2.jpg, 0.6301080229664879, unknown, True
10. unknown-hasanudin.png, reza-budiawan.jpg, 0.5940618103401316, unknown, True
11. adiyasa-nurfalah3.jpeg, baud-prananto.jpg, 0.6093676872802738, unknown, False
12. unknown-wisnu.jfif, handoko-supeno2.jpg, 0.6618361908595981, unknown, True
13. meza-silvana3.jfif, meza-silvana.jpg, 0.27977023170030346, meza, True
14. baud-prananto2.jfif, baud-prananto.jpg, 0.39971657809766914, baud, True
15. unknown-putin.jpeg, -, 1000, unknown, True
16. riza-ibnu2.jpg, riza-ibnu.jpg, 0.24680973812804852, riza, True
17. unknown-galgadot2.jpg, -, 1000, unknown, True
18. riyanto-riyanto3.jpeg, baud-prananto.jpg, 0.6390715961533979, unknown, False
19. hartanto-tantriawan2.jpg, hartanto-tantriawan.jpg, 0.5022805615267053, hartanto, True
20. unknown-gozali.jpg, yulrio-brianorman.jpg, 0.6456608259518453, unknown, True

21. unknown-revalina2.jpeg, -, 1000, unknown, True
22. riyanto-riyanto2.jpeg, handoko-supeno.jpg, 0.6555748191132102, unknown, False
23. rahman-indra3.jpeg, handoko-supeno.jpg, 0.5277063127912653, handoko, False
24. mina-ismu2.jpg, mina-ismu.jpg, 0.31353389825635614, mina, True
25. unknown-bambang.png, handoko-supeno.jpg, 0.57525050258047, unknown, True
26. unknown-singgih.png, sulthoni-ashiddiiqi.jpg, 0.6573016427270664, unknown, True
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30. unknown-galgadot.jpg, -, 1000, unknown, True
31. unknown-airin2.png, -, 1000, unknown, True
32. meredita-susanty2.jpg, meredita-susanty.jpg, 0.255136102706916, meredita, True
33. lathifah-arief3.jpeg, lathifah-arief2.jpg, 0.6122549976175189, unknown, False
34. reza-budiawan2.jpg, reza-budiawan.jpg, 0.3136158416344257, reza, True
35. sartono-arief2.jpg, riza-ibnu.jpg, 0.5565421176767913, unknown, False

36. unknown-zelensky.jpeg, reza-budiawan.jpg, 0.6407414593634266, unknown, True
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