1-Correr código python/notebooks no servidor do DI (tentar meter outputs em ficheiro separado e extrair do servidor)

2-Extrair labels e converter em arrays de floats

3-Pre-process das instancias (ver nomes mal criados, ver distribuicao em relacao a intervalos de idades, genero, estratificacao por idades, equilibrar casos por etnias ou outras coisas, normalizar os dados)

4-feature extration(Martim-opencv , Alex-cnn)

5-correr modelos (svm com linear e RBF kernels; CNNs - variar parametros gridsearch ou algo assim)

6-Avaliar modelos e comparar metricas

7-Relatorio com explicacao de todos os passos e outras coisas teoricas sobre CNNs e tal

Links uteis

<https://www.kaggle.com/datasets/jangedoo/utkface-new>

<https://www.kaggle.com/code/eward96/age-and-gender-prediction-on-utkface/notebook>

<https://www.kaggle.com/datasets/jangedoo/utkface-new>

<https://www.youtube.com/watch?v=vEJzsGXrB70>

[Understanding SVMs’: For Image Classification | by DataTurks: Data Annotations Made Super Easy | Medium](https://medium.com/@dataturks/understanding-svms-for-image-classification-cf4f01232700)

<https://medium.com/@dataturks/deep-learning-and-computer-vision-from-basic-implementation-to-efficient-methods-3ca994d50e90>

<https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwjPxcjA5Ib-AhVMTaQEHb5OBH4QFnoECAwQAQ&url=https%3A%2F%2Fmdpi-res.com%2Fd_attachment%2Finformatics%2Finformatics-09-00018%2Farticle_deploy%2Finformatics-09-00018.pdf%3Fversion%3D1645777833&usg=AOvVaw1zqvK7bq0lFq7-Km2yayLX>

https://github.com/Sobika2531/Age-Gender-And-Race-Detection-Using-CNN/blob/main/README.md

[Image classification using Support Vector Machine (SVM) in Python - GeeksforGeeks](https://www.geeksforgeeks.org/image-classification-using-support-vector-machine-svm-in-python/)