Facial Recognition with Deep Learning

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GOAL



Jane Doe



LFW Database

Match?

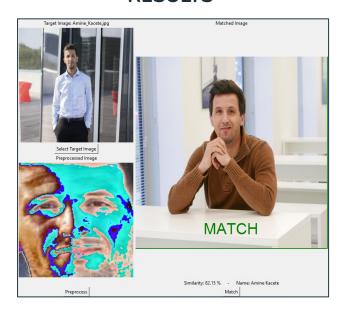
METHOD

Target image LFW base **Face preprocessing: MTCNN Embedding**: ResNet (pretrained on VGGFace2*) **Distance between embeddings** $d_i = ||X_i - X_{ref}|| \ \forall i \in |\text{LFW}|$ $i^* = argmin \ d_i$

Graphical interface

Choice and display of the target image Preprocess Display of the preprocessed target image Search and display of a match in LFW

RESULTS



- Match / Partial match / No match
- Similarity in percentage
- Name of the identified match

*see VGGFace2: A dataset for recognising faces across pose and age