

Towards Interpretable & Robust Face Recognition

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PROJECT OBJECTIVES :

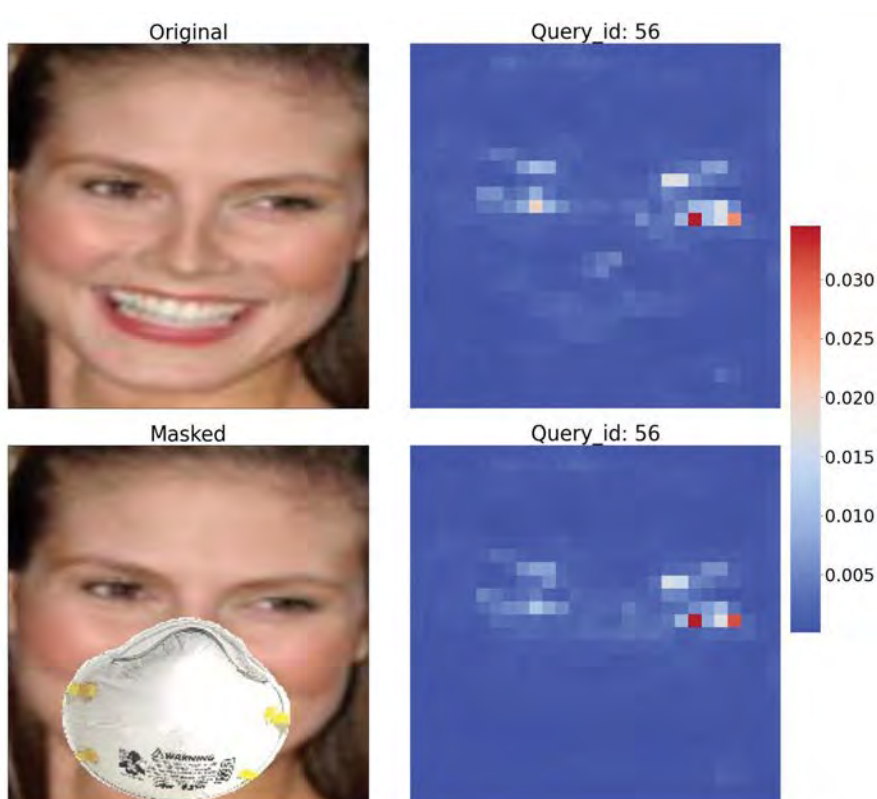
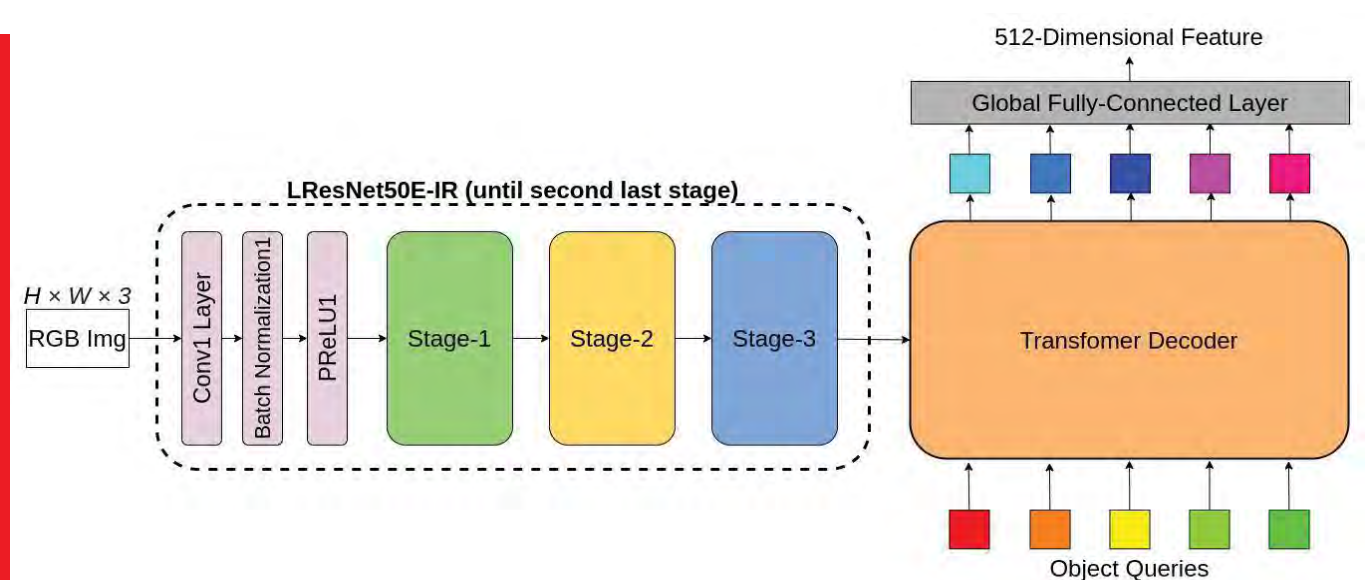
This project addresses the limitations of current face recognition methods, which are:

- 1). Not robust against constrained environment, especially partial image occlusions, and
- 2). Lacking of visual evidence to support predictions from neural network.

This project also introduces new dataset called Masked-LFW to simulate partial occlusions on face images via facial masks.

MODEL ARCHITECTURE :

- Modification of DETR model
- LResNet50E-IR backbone
- Trained on CASIA-Webface dataset (~450K images, 10575 identities)



ADVANTAGES :

- Able to recognize identities with & without facial masks
- Able to filter out facial masks without explicitly trained image occlusions
- Able to generalize into real-world applications

