Eye2Eye

Making Video-Conferencing more realistic, one frame at a time!

Ministry: Department of Science & Technology Problem Statement: PR324 Team Name: VIZON Team Leader: Parth Sarthi Prasad College Code: 1-3512549572.



Problem Statement



EVE2EYE

ML Model:

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Used for Head Pose Estimation followed by replacing the misaligned eyes with Al generated aligned gaze eyes to give effect of eye to eye conversation.

Security & Communication Layer:

Providing real time secure communication to give optimum call experience without compromising privacy

Optimization:

3 Effective image compression using High Efficiency Image Coding (HEIC) to ensure availability of bandwidth.

Solution

EYE2EYE



Hardware Representation





3.2.2 BCM2837 Microprocessor Board





3.2.4 HDMI To VGA Convertor









Our Model Correcting













Use of state of the art Deep Learning techniques, such as GANS, transfer learning, etc. for test case generation and training of neural network models.

Use of RTSP/RTMP protocols to ensure real time secure communication for both parties.

HEIC (High Efficiency Image Coding) protocol for speedy and effective 3 compression of image data minimizing buffering in calls.

Showstoppers

EYE2EYE