

## Facial Recognition an Artificial Intelligence to Facial Landmarks

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### EDITORIAL

Facial Recognition is an analytics program that identifies and authenticates a selected person by their countenance from a picture or video. The software uses biometrics to map the geometry of the face. It notes quite sixty facial landmarks, measuring then calculating variety to represent the combined relative distances. The result's called a 'face print.' Cross-referencing the results of this mathematical formula with known databases quickly confirms identity. The procedure simply requires any device that has digital photographic technology to get and acquire the pictures and data necessary to make and record the biometric facial pattern of the person who must be identified.

Face recognition systems capture an incoming image from a camera device during a two-dimensional or three-dimensional way counting on the characteristics of the device. During this comparison of faces, it analyses mathematically the incoming image with none margin of error and it verifies that the biometric data matches the one that must use the service or is requesting access to an application, system or maybe building.

Face recognition uses specialize in verification or authentication. This technology is employed, for instance, in situations such as:

### ADVANTAGES

With the utilization of face recognition comes with it a number of potential benefits, including:

- No got to physically contact a tool for authentication- compared to other contact-based biometric identification techniques like fingerprint scanners, which cannot work properly if there's dirt on a person's hand.
- Improved level of security.

- Requires less processing compared to other biometric identification techniques.
- Easy to integrate with existing security measures.
- Accuracy of readings has improved over time.
- Are often wont to help automate authentication.

### DISADVANTAGES

- Cons of face recognition on Society - In countries without personal freedoms, governments haven't any limits to use the technology as they see fit. As a result, they might spy on their citizens and single them out for what they assert or whom they meet.
- Individual Privacy Concerns: Another of the Disadvantages of face recognition - face recognition systems is capable of analyzing many images and videos from many sources. These include CCTV cameras, smartphones, social media and other online activity.
- Data Privacy Concern with face recognition - Ultimately, face recognition data gets stored in servers, usually accessible via the cloud. Like the other computing system, it's susceptible to hackers.
- Face recognition and Racial Bias - Another major disadvantage of face recognition technology is that the possibility of racial bias. Reports that face recognition isn't as effective at identifying people of color and ladies have surfaced.
- Low Reliability - at the present development levels, some factors can throw off face recognition systems. For instance, low illumination, image or video quality can cause false positives.
- Lack of Regulation - Governments round the world are yet to pass legislation around face recognition. As a result, there's no consistent framework for its use and limits.

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