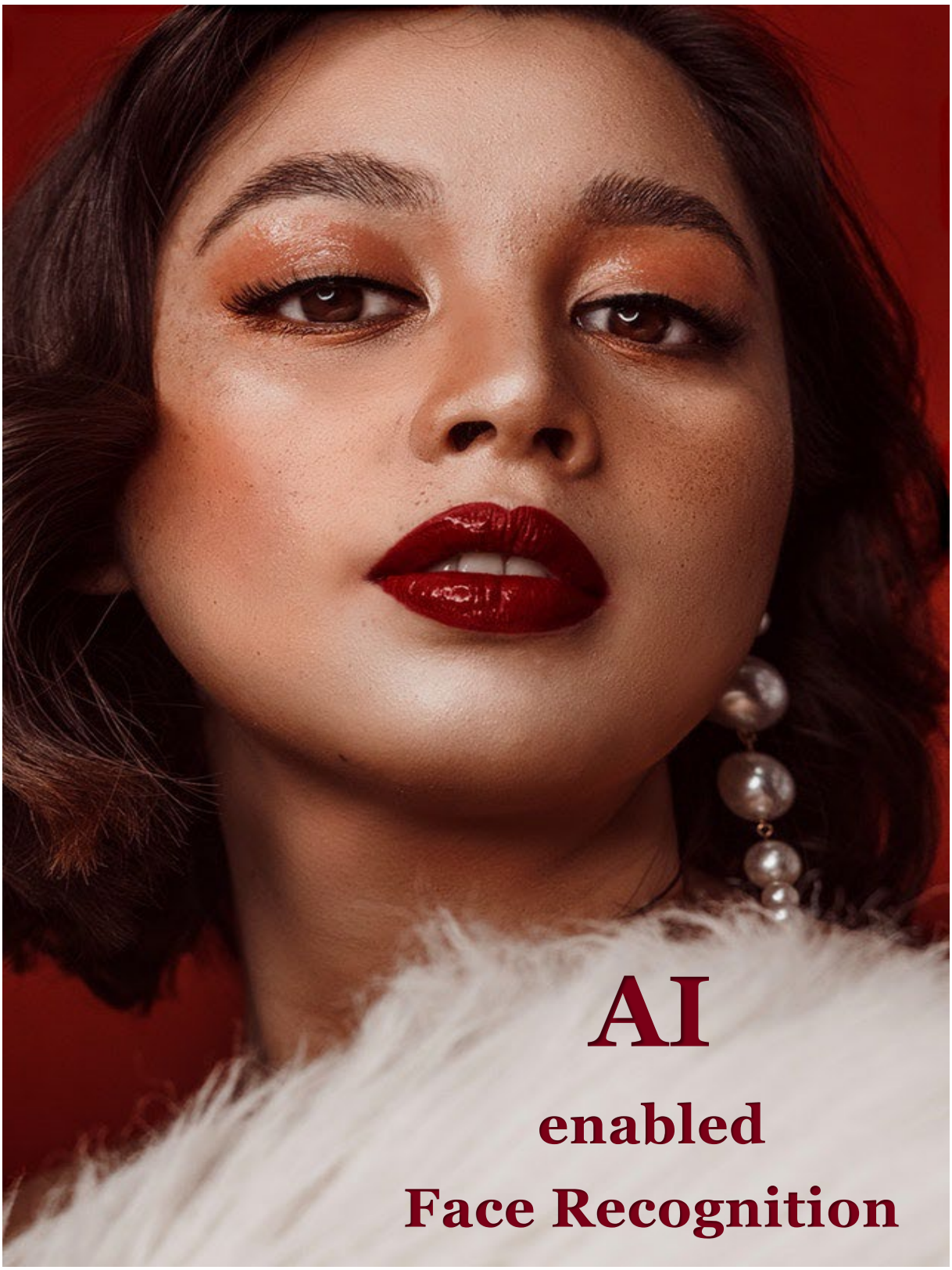
AI
enabled
Face Recognition

Facial recognition systems are a sub-field of AI technology that can identify individuals from images and video based on an analysis of their facial features. Today, facial recognition systems are powered by deep learning, a form of AI that passes inputs through multiple stacked layers of simulated neurons to process information. These neural networks are trained on thousands and millions of examples of the problems the system is likely to encounter, allowing the model to "learn" how to identify patterns from the data correctly. Facial recognition systems use this method to isolate certain features of a face that has been detected in an image—like the distance between certain features, the texture of an individual's skin, or even the thermal profile of a face—and compare the resulting facial profile to other known faces to identify the person.

How Significance is Face Recognition Ai

Face recognition **Access Control** is growing beyond the contactless authentication trend that emerged during the Covid. Over time, face recognition improved accuracy and speed and has evolved into a reliable solution for low throughput to high-traffic applications. Another reason the technology is gaining traction is the greater interoperability across access control devices, web application, and smartphones under the same system. A flexible cloud platform provides real-time information on the status of visitors **(Visitor Management).** Using cameras, coupled with more robust Visual AI allows for flexible image capture and updates whether employees have signed in or out **(Attendance Management)**; accessible anytime and anywhere with just a web-enabled browser or any smart mobile device.

How is Face Analytics Data used?

Customer experience, service, satisfaction, and behavior has been a challenge for many years. Demographic analysis using facial recognition makes it easy to obtain the data you need to answer these kinds of key questions. This data greatly assists in knowing the customer (potential and existing) better and provide personalized solutions and services enhancing the **customer experience** and eventual **business growth**.

Face Detection and People Counting is helpful in identify Criminals for forensics search and many more

- Face recognition-based blacklist identification& Multi camera tracking
- On-demand search on archived video
- Search based on archived Metadata, Smart Metadata Search
- Search based on different attributes – object, object behavior & events
- Real-time and Advanced real-time search through AGV Web Client & VMS/PSIM Client
- Supports lean search high precision

The demand for rapid, contactless access and authentication technologies is rising. Whether **granting individuals access** to specific sections of your company or, from an IT standpoint, granting access to files and databases, face recognition can give a quick, accurate, and, most crucially, frictionless solution. **Businesses** are also implementing

face recognition technologies for **work attendance** systems to prevent time fraud and increase the security of employees checking in and out of the office. In the retail industry, facial recognition is utilized to **speed up theft and fraud investigations** and analyze footage from numerous sources to **identify individuals of interest**. Furthermore, it is used to **identify consumers** in a loyalty program, provide personalized levels of care, and increase the speed of in-store payment transactions, resulting in a better customer experience.

Face Recognition Market Statistics

Market analysis forecast a massive growth in Face Recognition Ai market. The market is expected to grow from US$ 4.4 Bn (2021) to US $ 16.8 Bn by 2030.
https://www.alliedmarketresearch.com/facial-recognition-market
https://www.transparencymarketresearch.com/facial-recognition-market.html

Whether it's corporate offices, airports, metro stations, malls, supermarkets, or courts, **Lucror** provides best-in-class Face recognition Ai solutions that can be frictionlessly integrated with existing infrastructure and low cost of implementation.