



# Seek Suspect : Project for Person Retrieval

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**Docket** : CV-1

**Patent** : Filed

## Description

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The novel aspect of this project lies in an innovative and fully automated technology for facial image retrieval in criminal investigations. The system is designed to efficiently identify suspects based on minimal manually provided features such as face shape and eye characteristics. This automated process eliminates the need for manual sketch preparation, distinguishing it from traditional methods. The technology streamlines the identification process, offering law enforcement agencies an accurate and time-saving solution.

## Features

- **Advanced Facial Recognition Algorithms:** Utilize cutting-edge facial recognition algorithms for precise and reliable suspect identification, ensuring top-tier performance.
- **Real-time Analysis and Quick Results:** Enable real-time processing of facial images for swift suspect identification, significantly accelerating the pace of criminal investigations.
- **Versatility in Data Input:** Design the system to effectively operate with minimal manual input, focusing on key features like face shape and eye characteristics for adaptability in various investigative scenarios.
- **Integration with Existing Systems:** Ensure seamless integration with current law enforcement databases and systems, facilitating easy adoption without requiring extensive infrastructure changes.

## Applications

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- Fully automated process eliminates the need for manual sketching by automating the facial image retrieval process
- Efficient suspect search in databases, quickly scanning large databases to identify suspects based on minimal input features
- Enhances efficiency in criminal investigations, enabling swift suspect identification and significantly accelerating the investigation process.

- Versatile applications extend beyond criminal investigations, including finding missing persons, creating and refining facial images, and utilizing finer details of facial features for improved accuracy in various contexts.

## Use-cases

- **Law Enforcement Agencies:** Police departments, federal agencies, and criminal investigation units for identifying suspects and solving cases
- **Forensic Departments:** Forensic scientists and professionals for assisting in facial image reconstruction and identification of suspects or victims.
- **Security Agencies:** Public and private security organizations responsible for maintaining safety in public spaces, airports, borders, and high-security facilities.
- **Missing Persons Agencies:** Organizations and governmental bodies involved in searching for and identifying missing individuals.
- **Intelligence and Counterterrorism Units:** Agencies focusing on identifying and tracking individuals involved in criminal or terrorist activities
- **Border Control and Immigration Authorities:** For monitoring and identifying individuals entering and exiting a country.
- **Event Security Teams:** Organizations managing large-scale public events or gatherings that require enhanced surveillance and identification measures.
- **Private Corporations:** Companies needing advanced facial recognition for securing access to sensitive areas, personnel verification, or improving security protocols.

## Theme

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### Technological specifications

- Facial Recognition Algorithms
- Machine Learning Models for Image Classification
- Deep Learning Techniques
- Computer Vision Software Libraries
- Biometric Analysis Tools
- Pattern Recognition Systems

### Domain

- Law Enforcement
- Healthcare
- Security and Surveillance
- Retail
- Transportation

### Theme

- Artificial Intelligence (AI)

- Machine Learning (ML)
- Computer Vision
- Biometrics
- Pattern Recognition

## Reach Out

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