**Synopsis**

Authentication using Face Recognition

**Project Mentors: Project Members:**

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**Project Topic:**

Authentication using Face Recognition

**Project Brief Information:**

**Authentication using face recognition is a project that utilizes computer vision and machine learning techniques to verify the identity of an individual by analyzing their facial features. It is a biometric authentication method that relies on unique facial characteristics to grant or deny access to a system or a physical location.**

**Authentication using face recognition offers several advantages, including convenience, non-intrusiveness, and a relatively high level of security. However, it also poses certain challenges, such as susceptibility to spoofing attacks using manipulated images or videos. Therefore, additional security measures like liveness detection (to verify the presence of a live person) can be incorporated to mitigate these risks.**

**Technology Used in Project:s**

1. OpenCV
2. Dlib
3. Face Recognition
4. TensorFlow
5. PyTorch

**Project Outcome:**

Successful outcomes of an authentication using face recognition project depend on various factors, including system design, accuracy of the face recognition algorithms, quality of captured images, and appropriate privacy and security measures implemented to address potential risks.

**Project Limitations:**

It's important to thoroughly evaluate these limitations and design mitigation strategies to address them effectively while considering the specific requirements and context of the face recognition authentication project.