

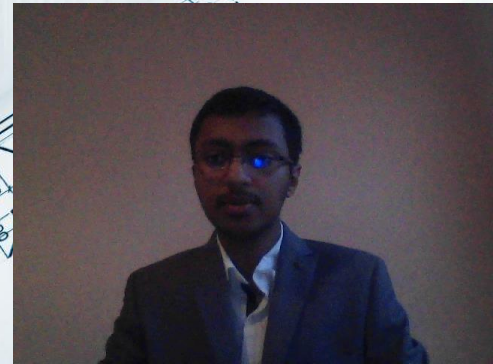
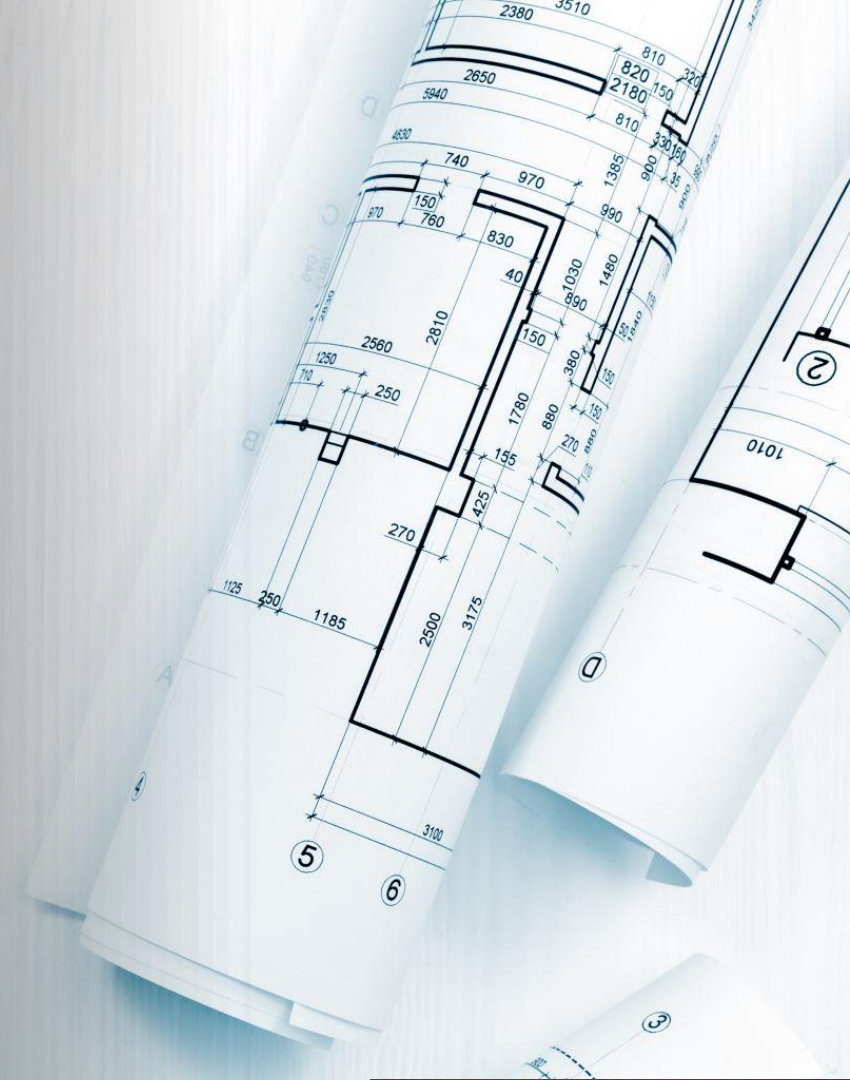


# Smart Monitoring System Using Facial Rec

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SIT-210

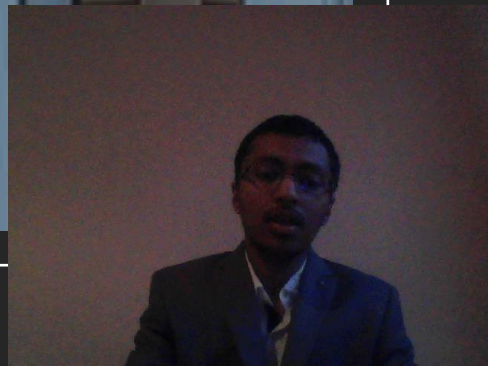
Deol Satish



# Security Issues

- How are we going to solve Home Security? When locks can be picked and packages left on the doorstep can be stolen without any effort, facial recognition technology helps a lot.
- Facial recognition technology works by mapping the geometry of your facial features, like the length from your chin to your forehead, based on a photo or video. This is known as a “faceprint,” similar to a fingerprint. The information is then stored and compared to millions of other faces in a database.
- A surveillance system equipped with powerful facial technology empowers a security team to respond to suspicious, threatening or banned individuals.







# Facial recognition security Camera

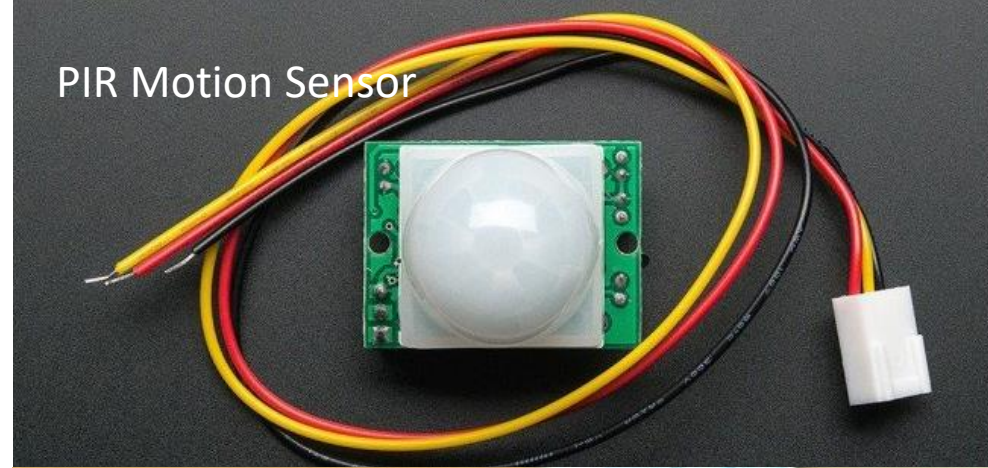
- When it comes to home security, facial recognition technology in security cameras can be used to create a personal database of people who regularly visit your home. This way, your camera can detect if a person should be on your property or not.
- The project system can detect if there is any movement and switch on the lights and the facial recognition software sends a notification through iftt app or email if there is an intruder or not.







Raspberry Pi



PIR Motion Sensor



Rpi Camera Module



Particle Argon



# Youtube Link For Presentation

[https://youtu.be/1zGK\\_0luc-g](https://youtu.be/1zGK_0luc-g)



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# Personal Reason for Smart Monitoring System using Facial Recognition

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- I have always wanted to do machine learning and A.I and facial recognition is widely used.
- Last trimester , in web development I wanted to use facial recognition but did not have time to learn and implement it, thus using this project I want to learn facial recognition and a case of machine learning, and can be used in many other units