Module 3: Creating Solutions with Raspberry Pi and Sense HAT Board

Assignment

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Problem Statement

Business Considerations:

ABC Corporation needs to deploy a Face Recognition System at one of their Datacentres. Since this is the first time when they have decided to deploy such a system they have minimized the amount of resources they can put in for creating such a system.

They have provided you with just one Raspberry Pi to deploy the system and show the working of it. As an IoT Solutions Architect you need to deploy this system on the premises.

Hardware Available:

1. Raspberry Pi 3 Model B

Software Specifications:

1. Python 2.7
2. OpenCV 2.4
3. IP Cam (Android App from Google Play Store)

Expected Solution:

The solution must be created by integrating IP Cam with Raspberry Pi so that Mobile Phone Camera can be used for Face Recognition. The system must be able to recognize uniquely identifiable faces after being trained on respective dataset. No extra hardware should be used for creating the solution.