**No Mask No Entry**

**Objective:**

To create a face mask detector Door opener using Machine Learning.

**Components Required for Automatic Door Opener System:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No.** | **Name** | **Quantity** | **Technical Speciality** | **Cost** | **Usage** |
|  | **Arduino Uno** |  |  |  |  |
|  | **PIR Sensor** |  |  |  |  |
|  | L298N Motor Driver Module |  |  |  |  |
|  | CD Tray with 5V Motor |  |  |  |  |
|  | Breadboard |  |  |  |  |
|  | Connecting Wires |  |  |  |  |
|  | Power Supply up to 12volts  5MP Camera |  |  |  |  |
|  | 5 Push Buttons |  |  |  |  |
|  |  |  |  |  |  |

**Component Description:**

**Arduino UNO**

In this project, Arduino UNO acts as the main controlling part. It reads the data from the Camera and PIR Sensor and activates the L298N Motor Driver based on the data from the Camera and PIR Sensor.

**PIR Sensor**

Detecting human motion is done with the help of PIR Sensor.

**L298N Motor Driver Module**

Motor Driver is an important part of the project as it is responsible for driving the motor of the door (CD Tray Motor in this case). In this project, we have used the very common and very popular L298N Motor Driver Module.

**5MP Camera.**

Detection of Face Mask is done with the help of Camera.