**Synopsis**

**Name:**

**AIMRS (Automatic ID card & Mask Recognition System)**

**Statement about the problem:**

Now a day’s COVID-19 spreading day by day so everyone has to wear the mask is mandatory for the precaution but as we are habitual of our life style wearing mask is uncomfortable.

In colleges and school some student don’t follow the discipline and the come in informal way

Like without ID card & uniform etc.

**Why the particular topic chosen:**

As we know, it is mandatory to wear mask in covid-19 pandemic.

But some students/teachers don’t take seriously to wearing mask and also don’t wear their ID card.

Our project will help the university/colleges/schools to detect their students whether they are wearing ID card as well as Mask or not.

Our project will automatically detect the face of those students/teachers who is not wearing their mask or ID card.

**Objective and Scope:**

To Detect the Mask

To Detect the ID card

To Detect the Uniform

To Recognize the Face

This project will help the Universities & Collages to maintain the discipline. Also It’ll help to avoid the COVID-19.

**Methodology:**

We will work on python programming language to build this project and will use the OpenCV, NumPy, MATLAB libraries for this project. No Third party Data is required for this project. Starting Dummy will work on the only departmental level.

**Hardware and Software to be Used:**

* Python
* pyCharm
* Laptop
* Camera

**Testing technologies:**

* Usability Testing
* Functional Testing
* Interface Testing
* Integration Testing
* Compatibility Testing
* Performance Testing
* Security Testing

**What contribution would project make:**

We will aim to bring the disciplined student and COVID-19 free environment.

By detecting mask we can avoid the covid-19 virus & it will also help prevent from Air-Pollution.

By detecting ID card, we can easily check whether Student or Teacher is wearing ID card or not.

We want to remove the manual process to check whether students/teachers wearing Mask & ID card or not. We want to makes things automatically.

**Guide’s Name:**

Dr. Vishnu Sharma

**Brief profile of guide:**

Dr. Vishnu Sharma, Ph.D is working as an Associate Professor in School of Computer & Systems Sciences at Jaipur National University since 2012.He has guided more than 100 M.Tech,MCA, B.Tech and BCA level Projects. He is supervising Ph.D students also. He has published 10 peer reviewed research articles, 2 book chapters. Prior to this, Dr. Sharma has held position as Head of Department at Computer Systems Sciences at Mewar University, Chittorgarh. He has served various institutions and having around 17 years vast teaching and research experience.