**LIST OF FIGURES**

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Fig No. | Fig Name | Page No. |
| 1. | 1.2.1 | Dataset | 2 |
| 2. | 1.2.2.1 | YOLO model | 3 |
| 3 . | 1.2.2.2 | YOLO Detection | 4 |
| 4. | 1.2.3.1 | Deep Neural Network | 5 |
| 5. | 1.2.4.1 | Determine Person Location | 6 |
| 6. | 1.2.5 | Non-maxima Supression for a person | 7 |
| 7. | 3.2.1 | Architecture Diagram | 19 |
| 8. | 3.2.2 | Flow diagram | 20 |
| 9. | 3.2.3 | Single-Stage Network | 21 |
| 10. | 3.2.4 | Detected coordinates of person bounding box | 22 |
| 11. | 3.2.5 | Input image, detected person bounding boxes using deep learning algorithm, compute the centroid of each detected bounding box, finally , the distance between each pair of the centroid is determined | 24 |
| 12. | 3.3.1 | Use Case Diagrams | 25 |
| 13. | 3.3.2 | Sequence Diagram | 26 |
| 14. | 3.3.3 | Class Diagram | 27 |
| 15.  16.  17.  18.  19.  20.  21.    22. | 4.3  4.4.1  4.4.2  4.4.3  4.5.1  4.5.2  4.5.3  4.5.4 | Test Cases  Command to run project  Website URL  Frame of Input video  web page to give i/p video  picture showing start of model  An information displaying that mails are sent when violation limit is reached  Mails sent to the respective monitoring staff members | 34  35  35  36  37  37  38  38 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |