ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING TECHNOLOGY TO AVOID ANONYMOUS PHOTO CAPTURE USING R-CNN OBJECT DETECTION ALGORITHM.

Abstract:

In the era of digitalization, the use of cameras and image capturing technology has become ubiquitous. However, the rise of such technology has also led to an increase in the capturing of illegal images, such as those depicting criminal activities or other forms of illegal behavior for women's. This not only undermines the privacy and security of individuals, but it can also pose significant risks to national security and public safety. To address this issue, this project proposes the development of an AI-based system to detect and prevent the capturing of illegal images. The system will use computer vision and machine learning algorithms to analyze images in real-time and determine whether they contain illegal or inappropriate content. If such content is detected, the system will automatically prevent the capture and storage of the image, and will alert relevant authorities as appropriate. Additionally, the system will be designed to promote cyber security by implementing advanced security measures to protect sensitive data and prevent unauthorized access.

This includes the use of encryption and secure data storage practices, as well as the deployment of threat detectionandresponsemechanisms.Thisprojectw illcontributetotheadvancementofAItechnologya nd its application in promoting privacy In these modern world women related and sexual crimes are caught by cell phone camera and women are more affected and such crimes are prevented by R-CNN Algorithm.

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1. INTRODUCTION

Me Too Movement: The Me Too movement, which started in 2017, gained momentum and highlighted the prevalence of sexual harassment and assault. The movement encouraged survivors to share their experiences, and many high-profile individuals were called out for their behavior.

Campus Sexual Assault: Sexual assault on college campuses has been a significant issue in the last few years. Several high-profile cases have led to discussions about how universities can improve their response to reports of sexual assault and how to prevent these incidents from occurring.

Child Sexual Abuse: In recent years, there have been numerous high-profile cases of child sexual abuse, including those involving prominent figures in the entertainment industry and religious institutions.

Human Trafficking: Sexual assault is a significant component of human trafficking. Victims of human trafficking are often sexually exploited, and it is estimated that millions of people are trafficked for this purpose each year.

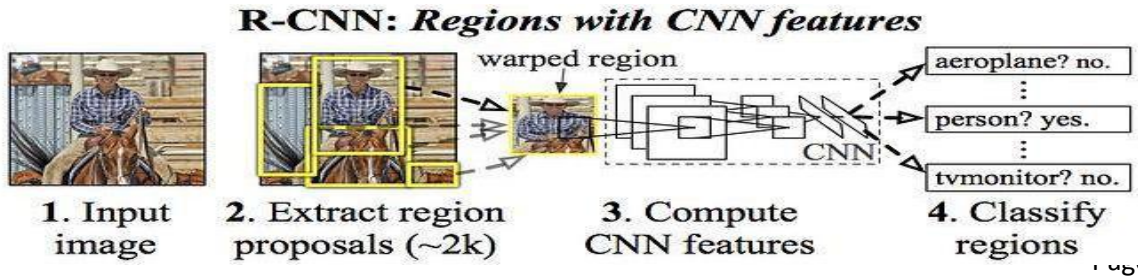
2. RELATEDWORK:

The camera captures images and videos using its sensors, lenses, and other components. The images and videos are then sent to the AI software for processing. The AI software analyzes the images and videos to detect objects such as people, animals, and vehicles. It can identify the size, shape, and location of the objects in the frame. The AI software can also recognize specific objects or patterns in the images and videos. For example, it can recognize faces, license plates, or logos. The AI software uses machine learning algorithms to learn and improve its performance over time. It can adapt to different lighting conditions, backgrounds, and other variables to improve accuracy. **T**he AI camera can process and analyze images and videos in real-time. It can provide instant alerts and notifications when it detects a specific object or event. The AI camera can store the captured images and videos on local or cloud-based storage. The data can be used for future analysis, training, or evidence purposes.

AI camera uses advanced software and hardware components to provide intelligent surveillance and monitoring capabilities. It can improve security, safety, and efficiency in various applications such as smart cities, transportation, and retail.

3. PROPOSEDWORK:

Mobile Camera used to wrongly taken photo with a cell phone and the system will automatically convert into a blear image using R- CNN algorithm Used and Rectify the artificial intelligence and machine learning technique.



3.1 PREPROCESSINGFORR-CNNALGORITHM

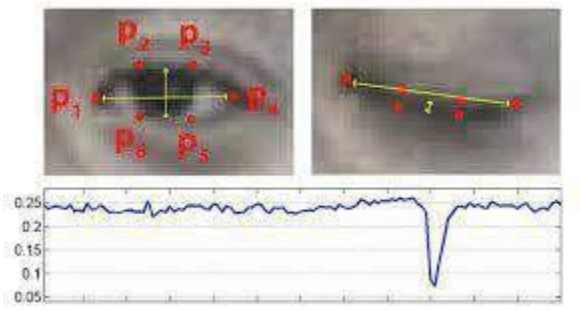
Object detection consists of two separate tasks that are classification and localization. R-CNN stands for Region-basedConvolutionNeuralNetwork.ThekeyconceptbehindtheR-CNNseriesisregionproposals.
Region proposals are used to localize objects within an image. In the following blogs, I decided to write about different approaches and architectures used in Object Detection. Therefore, I am happy to start this journey with R-CNN based object detectors.

3.2 FACEDETECTION

Face detection is a computer Technology being used in varity of technology to identify the human faces. Identify the human body to different types of faces in dots and object to identify the human faces.

3.3 EYEDETECTION

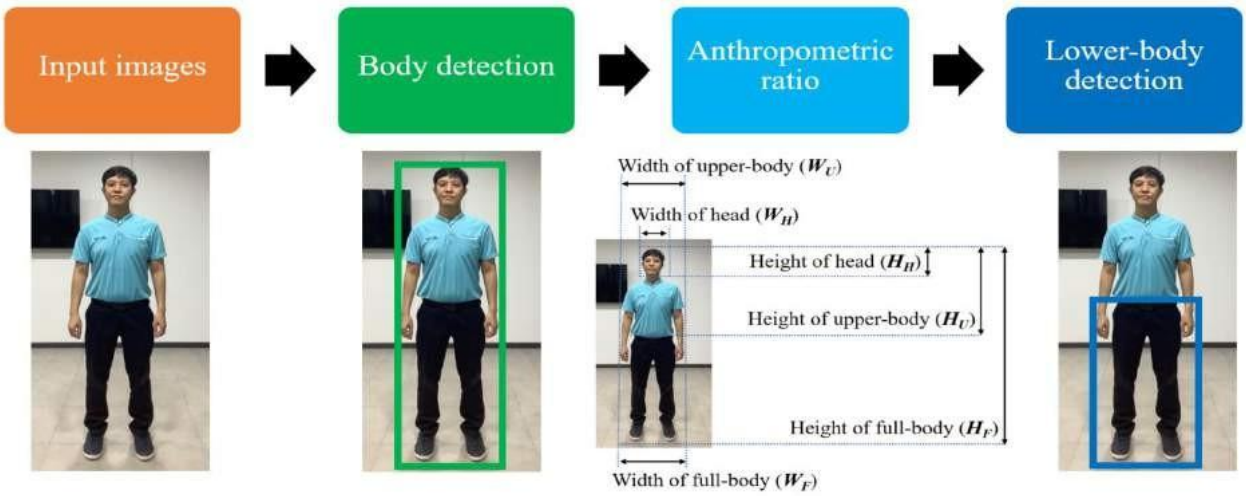
Human eyes are not only designed to see, but the eyes can know what object they are looking at through my object detection. Eye open and Eye close detection by the pixcel report to detect the Eye.



3.4 FULLBODYDETECTION

Input images to body detection and used in authentication ratio on Wu height of head and body. We can know the strength of a human body based on his height and body weight while scanning the

entire human body

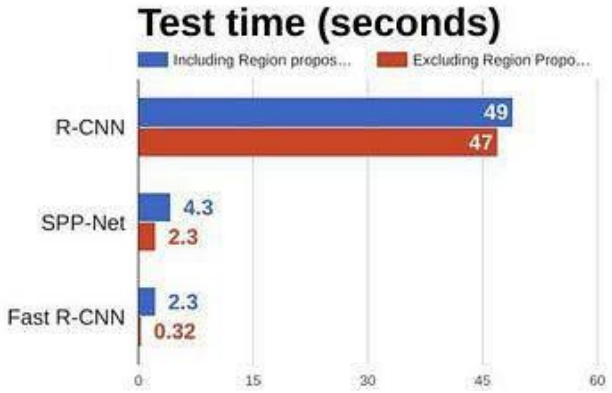


3.5 ANONYMOUSDRESS-CODEDETECTION

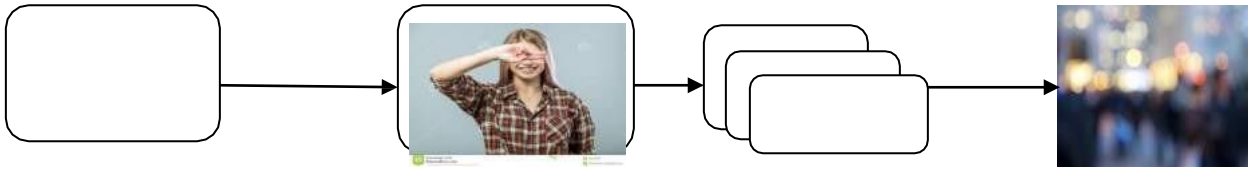
We a ring clothe son the human body continues to work after a certain period of time, now days crimes against women are happening more and more, when a cell phone camera takes a picture of a human body with wrong clothes, the picture should be edited so that no one can see it.

Apart from that, crimes such as sexual violence against women are prevented, but women are given due protection by using such highly secure methods in the modern computer world.

4. TIMINGDIAGRAM (Calculate the Images)



5. CLASSDIAGRAM



1.InputImages image | 2.ExtractRegion Proposals | 3.AnounousCapture Detection | 4.Blerr Images

6. CONCLUSION

In this way if the photos taken on mobile phones are wrong then the image will automatically turn into an unseen image. If there is a mistake in this then when the image is detected then some image may appear with wrong image Resolution ratios.

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