# Age Based Content Controlling System Using AI and Selenium

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Abstract- The internet has become an essential part of modern life, providing people with access to vast amounts of information, entertainment, and social connectivity. However, it is also home to content that is not appropriate for all ages, such as violent or sexually explicit material. To address this issue, an age-based content controlling system using AI and Selenium can be developed. The content analysis engine will use AI and machine learning algorithms to analyze the content of the website and determine its appropriateness for different age groups. The content filtering engine will block access to content that is deemed inappropriate for the user & age. The system will be designed to learn and improve overtime. As it is used more frequently, it will gain a better understanding of what content is appropriate for different age groups and refine Its classification and filtering algorithms accordingly. In conclusion, an agebased content controlling system using AI and Selenium has the potential to provide a safe and secure browsing experience for users of all ages. It can be especially useful for parents who want to ensure that their children are not exposed to inappropriate content online.

*Keywords: Face recognition, age detection, and content controlling.* 

#### I. INTRODUCTION

 ${
m A}$ n age-based content controlling system using AI

and Selenium is a system that uses artificial intelligence (AI) and the Selenium web automation framework to restrict access to online content based on the age of the user. This system can be used to ensure that minors are not exposed to age-in appropriate content while browsing the internet. The system works by analyzing the content of websites and determining whether it is appropriate for certain age groups. The AI Component of the system uses natural language processing (NLP) and machine earning algorithms to identify keywords and phrases that indicate the presence of age -in appropriate content. The Selenium frame work is used to automate web browsing and simulate user behavior. The system can be setup to block access to certain websites or sections of websites that contain age-inappropriate content, based on the age of the user. The age of the user can be determine through various means, such as self-reporting, parental controls, or social Media account information. The system can also be configured to use facial recognition technology to verify the age of the user before allowing access to certain websites. Overall, an age-based content controlling system using AI and Selenium provides a powerful tool for parents and guardians to ensure that minors are protected from age-inappropriate content online. It can also be used by schools, libraries, and other organizations to control access to certain websites and ensure that users are only able to access content that is appropriate for their age group.

## Age verification module:

This module would be responsible for verifying the age of the user. It could use AI techniques such as facial recognition or machine learning algorithms to estimate the age of the user based on their picture or other data points. Selenium could be used to interact with the user interface and enter the necessary data.

#### **Content categorization module:**

This module would be responsible for categorizing the content on the website in to age-appropriate categories. It could use AI techniques such as natural language processing to analyze the content and categorize it accordingly. Selenium could be used to scrape the website and extract the content.

#### **Content filtering module:**

This module would be responsible for filtering out content that is not age-appropriate for the user. It could use AI technique s such as machine learning algorithms to identify content that is not suitable for the user's age group. Selenium could be used to interact with the user interface and hide or block the content.

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### **Block Diagram**:



## Methodology:

an age-based In the case of content controlling system using AI and Selenium, the methodology section would describe how the system and Selenium in the system, including how they are programmed to recognize and filter in appropriate content. The data collection and processing mechanism would also be explained, detailing how the system collects data on users' ages and uses that data to determine whether they can access certain content. The age verification process would be described in detail, including how the system ensures that users are providing accurate age information.

Once the system is developed, it would be tested to determine its accuracy and efficiency. The results of the testing would be presented in the results section of the paper, along with a comparison of the system's performance to that of exist in gage-based content effectiveness.

### Advantages:

- 1. Increased online safety for minors
- 2. Time-saving
- 3. Scalable
- 4. Customizable
- 5. Reduced burdens on parents

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## **Disadvantages:**

- 1. Limited scope
- 2. Complexity
- 3. Costs
- 4. False and Negatives
- 5. Limited effectiveness on limited content
- 6. Privacy concerns

### **Conclusion:**

In conclusion, the development to an age-based content controls system using AI and Selenium has the potential to improve online safety and protect minors from exposure to inappropriate content. By using machine learning algorithms, the system can learn and classify content based on ageappropriateness, which can help to mitigate the risk of minors accessing harmful material. Using Selenium, the system can interact with webpages and identify content, enabling it to block access to inappropriate material automatically. The sweeten devidored to be integrated. Withseptimut bure ptroih with a des software, providing parents with greater control over their children's online activity. However, it is important to note that no system is foolproof, and there is always the potential for false positives or negatives. Additionally, the system would require regular updates and maintenance to ensure it stays current and effective .Overall, an age-based content controlling system using AI and Selenium is a promising solution to a complex problem, and with proper implementation and ongoing improvements, it could make a positive impact on online safety for minors.

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