TOC CAPSTONE PROJECT

PROJECT TITLE:

INAPPROPRIATE COMMENT SCANNER

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ABSTRACT:

A robust inappropriate comment scanner is designed to analyze textual input and flag potentially offensive or inappropriate language. Leveraging natural language processing (NLP) techniques, the scanner employs a combination of rule-based and machine learning algorithms to detect offensive words, phrases, and contextually inappropriate content. Through tokenization, syntactic analysis, and semantic understanding, the system identifies linguistic patterns indicative of disrespectful, discriminatory, or harassing language. Additionally, the scanner incorporates a dynamic database of offensive terms and continuously updates its models through supervised learning to adapt to evolving language usage and cultural contexts. Utilizing advanced text classification methods, the scanner assigns a probability score to each comment, indicating the likelihood of it being inappropriate. Administrators can customize the sensitivity threshold and define specific categories of inappropriate content to tailor the scanner to the needs of their platform. Furthermore, the system includes features for users to report false positives, contributing to ongoing refinement and improvement. Overall, an effective inappropriate comment scanner serves as a vital tool in maintaining respectful and safe online environments by proactively identifying and addressing harmful language.

INTRODUCTION:

In today's interconnected digital landscape, the proliferation of online communication platforms has revolutionized how people interact and share information. However, with the unprecedented ease of communication comes the challenge of monitoring and maintaining respectful discourse. Inappropriate comments, ranging from offensive language to harassment, pose significant risks to the well-being and safety of online communities. To address this issue, the development of inappropriate comment scanners has emerged as a crucial technological solution. Leveraging advancements in natural language processing (NLP) and machine learning, these scanners aim to detect and flag potentially harmful language in real-time. This introduction sets the stage for exploring the role and significance of inappropriate comment scanners in promoting positive online interactions and creating safer digital environments for users.

Inappropriate comment scanners are designed to not only identify explicit language but also to understand the nuanced context in which comments are made. By employing sophisticated algorithms, these scanners can discern between harmless jokes and genuinely harmful remarks, thus minimizing false positives and ensuring accurate detection. Moreover, they serve as a proactive measure, allowing platform administrators to swiftly address inappropriate content before it escalates and causes harm. As online communities continue to grow and diversify, the need for effective moderation tools like inappropriate comment scanners becomes increasingly apparent. This paragraph highlights the capabilities and importance of these scanners in fostering healthy and inclusive online environments.

CODE:

```html
<!DOCTYPE html>
<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width,
initial-scale=1.0">

<title>Inappropriate Comment Scanner</title>

<style>    body {       font-
family: Arial, sans-serif;

margin: 0;       padding: 0;

background-color: grey;

    }

  .container {       max-width:
600px;       margin: 50px
auto;       padding: 20px;

background-color: yellow;

border-radius: 8px;       box-
```

```css
shadow: 0 2px 4px rgba(0, 0, 0,
0.1);
    }

    textarea {        width:
100%;        height: 200px;
margin-bottom: 10px;
padding: 8px;        box-
sizing: border-box;
border: 1px solid #ccc;
border-radius: 4px;
    }

    button {        background-
color: green;
        color: #fff;
border: none;
```

```
padding: 10px 20px;

cursor: pointer;

border-radius: 4px;

    }

    #output {

margin-top: 20px;

color: red;

    }

</style>

</head>

<body>

<div class="container">

    <h2>Inappropriate Comment Scanner</h2>

    <textarea id="commentText" placeholder="Enter your
comment here..."></textarea>

    <button onclick="scanComment()">Scan
Comment</button>

    <div id="output"></div>
```
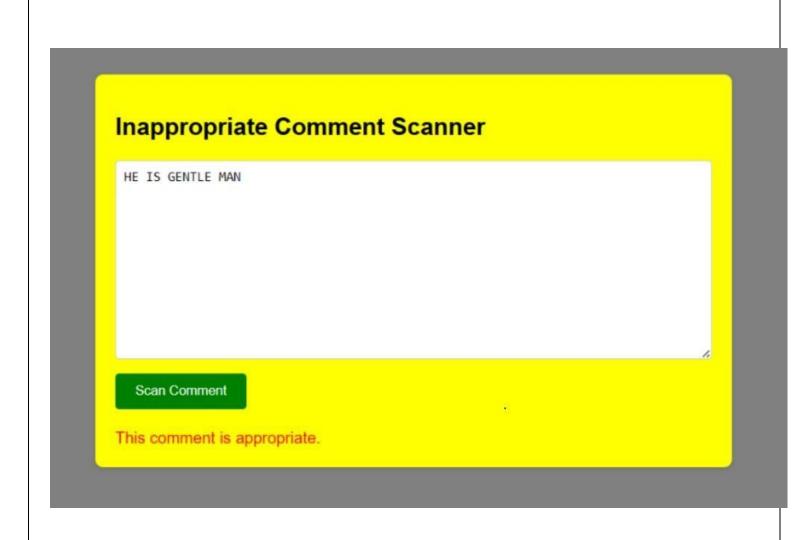
```
</div>

<script>    function

scanComment() {

    var commentText =
document.getElementById('commentText').value.toLowe
rCase();

    var flaggedWords = ['inappropriate', 'offensive',
'worst', 'useless', 'violence', 'vulgar', 'profanity',
'cigarrate'];        var

foundFlaggedWord = false;


    for (var i = 0; i < flaggedWords.length; i++) {

if (commentText.includes(flaggedWords[i])) {

foundFlaggedWord = true;

        break;

    }

    }
```

```
    if (foundFlaggedWord) {
document.getElementById('output').innerText = "This
comment contains inappropriate content.";

    } else {

        document.getElementById('output').innerText =
"This comment is appropriate.";

    }

  }

</script>

</body>

</html>
```

<u>OUTPUT SCREEN:</u>

Inappropriate Comment Scanner

ROBBERY IS WORST HABIT

Scan Comment

This comment contains inappropriate content.

CONCLUSION:

In conclusion, inappropriate comment scanners represent a critical technological solution for addressing the pervasive issue of online harassment and inappropriate behavior. By harnessing the power of natural language processing and machine learning, these tools empower online platforms to proactively identify and mitigate harmful content, thereby fostering a safer and more inclusive digital space for users. However, while scanners play a crucial role, they are not a standalone solution, and a comprehensive approach to online safety must also include user education, community guidelines, and human moderation. Continuous improvement and adaptation of scanners to evolving language and cultural contexts are essential to ensure their effectiveness in combating inappropriate behavior online. Ultimately, through the concerted efforts of technology companies, users, and policymakers, we can work towards creating a more respectful and supportive online environment for all.