

## Project Initialization and Planning Phase

Date	15 September2024
Team ID	739916
Project Name	Toxic Comment Classification for Social Media using NLP
Maximum Marks	3 Marks

### Define Problem Statements

#### Problem Statement:

**The Issue:** The rapid growth of social media has led to an increase in user-generated content, but it has also given rise to the prevalence of toxic comments. These comments can cause significant harm to individuals' mental health, foster negative environments, and discourage user engagement. Traditional methods of moderation are often insufficient, struggling with the volume, diversity, and real-time nature of toxic comments.

**Objective:** To develop an advanced Natural Language Processing (NLP) based classification system that can accurately identify and manage toxic comments in real-time across various social media platforms. This system aims to improve the overall user experience by promoting healthier interactions and reducing the presence of harmful content

<b>I'm trying to</b>	Engage in meaningful conversations without encountering toxic or offensive comments.
<b>But</b>	Toxic comments and offensive language disrupt discussions and create a negative online environment.
<b>Because</b>	There is a lack of effective moderation and robust tools for identifying and filtering toxic content automatically.
<b>Which makes me feel</b>	Frustrated, disrespected, and less inclined to engage in online discussions.

## Example:

I am	I'm trying to	But	Because	Which makes me feel
<p>A social media platform user.</p> <p>A social media platform administrator.</p>	<p>Engage in meaningful and respectful conversations online.</p> <p>Create a safe and positive environment for users</p>	<p>I frequently encounter toxic comments that disrupt discussions and create a hostile environment.</p> <p>The platform is inundated with toxic comments that are difficult to monitor and manage effectively</p>	<p>The platform's existing moderation system fails to promptly and accurately identify and remove harmful content..</p> <p>Current moderation methods are inadequate to handle the volume and complexity of toxic comments in real-time</p>	<p>Frustrated and discouraged from participating actively on the platform</p> <p>Overwhelmed and concerned about the impact on users' mental health and the overall community experience</p>

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A social media platform user	Engage in meaningful and respectful conversations online.	I frequently encounter toxic comments that disrupt discussions and create a hostile environment.	The platform's existing moderation system fails to promptly and accurately identify and remove harmful content.	Frustrated and discouraged from participating actively on the platform
PS-2	A social media platform administrator.	Create a safe and positive environment for users.	The platform is inundated with toxic comments that are difficult to monitor and manage effectively.	Current moderation methods are inadequate to handle the volume and complexity of toxic comments in real-time.	Overwhelmed and concerned about the impact on users' mental health and the overall community experience.