### Harmonize

Team 10



#### Problem Statement

Software developers spend most of their life on the internet. They may face constant harassment or bullying online which may lead to depression, anxiety and even loss of life in extreme cases. This tool attempts to prevent it.



#### Proposed Solution

- Identifying toxic comments in G-mail and GitHub in real-time and blurring them out.
- Providing better and non-toxic suggestions to users attempting to post toxic replies and encouraging them to replace it.
- Providing a toxicity scale for each comment and labelling them as toxic or non-toxic.

#### Technical Details

- SE specific dataset—ToxiCR for identifying toxic comments
- BERT model fine-tuned on ToxiCR
- Gemini API for suggestions
- Flask framework
- WSGI server
- Libraries TensorFlow,
   Transformers, Keras, PyTorch



## Plan for Release II

- Checking the GitHub repository and giving a toxicity score for the repo.
- Improving User-interface.
- Extending it to other applications.

#### Contributions

Preprocessing the dataset, Fine – CS21B013 tuning the BERT model, Bug fixing.

Dataset exploration, API

CS21B043

Integration with ERT model,

Integration with ToxiCheck,

Report

Detoxification suggestion CS21B045 using Gemini API and Integration with tool,

Explored about CS21B047 automatic reporting, Readme, Backend

Analyzed the tool
CS21B053
ToxiCheck, Backend,
Bug-fixing

# Thank you!