Project Timeline

Title: Cyber Bullying Detection using Machine Learning

S.No	Week wise timeline	Performed actions on intime
1)	Week-1	The ideology of the project
2)	Week-2	Study and Analysis of Preprocessing of the Data
3)	Week-3	Finalized the project title which is Cyber bullying Detection
4)	Week-4	Study and Analysis of the different types of existing systems
5)	Week-5	Study and Analysis of the different types of existing ieee papers, related sites in internet and documents
6)	Week-6	Find the what are the drawbacks of the existing methods
7)	Week-7	Finalized the procedure and structure
8)	Week-8	The planning stage for the project
9)	Week-9	Planning for the system Architect
10)	Week-10	Our initial idea into a product by designing a rough paperwork Pre-design of our project in our respective project material.
11)	Week-11	Collected data from twitter tweets and YouTube comments through web scraping
12)	Week-12	Data Labelling with the help of label studio
13)	Week-13	Data cleaning and pre-processing
14)	Week-14	Learnt about the required machine learning algorithms to detect cyber bullying texts
15)	Week-15	Learnt about the classification algorithms to classify the type of bullying
16)	Week-16	Implemented Naïve bayes and random forest algorithms as part of our code
17)	Week-17	Implemented SVM and decision tree algorithms
18)	Week-18	Learnt about flask to connect the machine learning model to web

19)	Week-19	Learnt about Heat maps and accuracy scores to calculate how well the algorithms are performing
20)	Week-20	Generated Heat maps by running the code
21)	Week-21	Found accuracy of each algorithm and testing and running the code
22)	Week-22	Finally, Machine Learning Model is created by integrating all modules into one. And found Random Forest is the best algorithm in terms of accuracy score
23)	Week-23	Testcase checking and Test Execution
24)	Week-24	Finally, we are getting the expected results.

Team member details and Roles and responsibilities along with how many personal hours spend on the project.

Serial number	Name of the student	Roles and responsibilities	Personal hours spend on the project Per week	No of Lines Code
1)	A Sankara Rao – (S170128)	Built machine learning model with algorithms to detect and classify the bullying text.	20	200 lines
2)	N.V.S.S Akhil Varma – (S170166)	Associated in building the model and checked for the best algorithm through accuracy score.	20	200 lines
3)	K Sasi Priyanka– (S170428)	Collected data from social media through web scraping and Done Data Pre-Processing	20	150 lines