

# **Sentiment Analysis of Social Media Presence**

**A PROJECT REPORT**

*Submitted by,*

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*Under the guidance of,*

**Dr.Medikonda Swapna-Asso.Prof**

*in partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND TECHNOLOGY (BIG DATA)**

**At**



**PRESIDENCY UNIVERSITY**

**BENGALURU**

**MAY 2025**

# PRESIDENCY UNIVERSITY

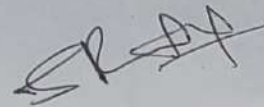
## SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

### CERTIFICATE


This is to certify that the Project report “Sentiment Analysis of Social Media Presence” being submitted by “Boyapati Sai Kumar, Koniki Ganesh, Pasupuleti Srinivas, Yarramsetty Sai Pallavi” bearing roll number(s) “20211CBD0009, 20211CBD0005, 20211CBD0019, 20211CBD0055” in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Computer science and Technology (Big Data) is a bonafide work carried out under my supervision.



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**DECLARATION**

We hereby declare that the work, which is being presented in the project report entitled **Sentiment Analysis of Social Media Presence** in partial fulfillment for the award of Degree of **Bachelor of Technology in Computer Science and Technology (Big Data)**, is a record of our own investigations carried under the guidance of **Dr. Swapna M, Asso. Prof, School of Computer Science Engineering & Information Science, Presidency University, Bengaluru**. We have not submitted the matter presented in this report anywhere for the award of any other Degree.

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## ABSTRACT

The rise of social media platforms has led to an unprecedented volume of user-generated content, making sentiment analysis a crucial tool for understanding public opinion, brand perception, and social trends. This paper explores various machine learning and natural language processing (NLP) techniques used in sentiment analysis, including lexicon-based methods, supervised and unsupervised learning models, and hybrid approaches. A comparative analysis of existing sentiment analysis models, their accuracy, and application areas is provided. The study also discusses challenges such as handling sarcasm, multilingual data, and contextual ambiguity. The findings highlight the importance of sentiment analysis in fields like politics, healthcare, business intelligence, and crisis management.

Sentiment analysis of social media presence has become a critical research area, driven by the rapid growth of user-generated content on platforms like Twitter, Facebook, and Instagram. This study explores various sentiment analysis techniques, including lexicon-based, machine learning, and hybrid models, to classify social media posts into different sentiment categories. Sentiment classification accuracy can be improved with the help of artificial intelligence and deep learning approaches like Naïve Bayes, SVM, and LSTM.

However, despite these advancements, challenges remain in areas such as sarcasm detection, multilingual text processing, and real-time sentiment analysis. The research has underlined the importance of sentiment analysis in real-world applications such as marketing, politics, finance, healthcare, and crisis management. Future developments in explainable AI, cross-lingual analysis, and advanced deep learning techniques will further enhance the capabilities of sentiment analysis, making it an indispensable tool for businesses, researchers, and policymakers.



## ACKNOWLEDGEMENT

First of all, we indebted to the **GOD ALMIGHTY** for giving me an opportunity to excel in our efforts to complete this project on time.

We express our sincere thanks to our respected dean **Dr. Md. Sameeruddin Khan**, Pro-VC, School of Engineering and Dean, School of Computer Science Engineering & Information Science, Presidency University for getting us permission to undergo the project.

We express our heartfelt gratitude to our beloved Associate **Dr. Mydhili Nair**, School of Computer Science Engineering & Information Science, Presidency University, and "**Dr. S Pravinth Raja**", Head of the Department, School of Computer Science Engineering & Information Science, Presidency University, for rendering timely help in completing this project successfully.

We are greatly indebted to our guide **Dr. Swapna M, Asso. Prof**, and Reviewer **Ms. Arshiya Lubna**, School of Computer Science Engineering & Information Science, Presidency University for inspirational guidance, and valuable suggestions and for providing us a chance to express our technical capabilities in every respect for the completion of the project work.

We would like to convey our gratitude and heartfelt thanks to the CSE7301 Capstone Project Coordinators **Dr. Sampath A K, Mr. Md Zia Ur Rahman**, department Project Coordinators "**Ms. Suma N G**" and Git hub coordinator **Mr. Muthuraj**.

We thank our family and friends for the strong support and inspiration they have provided us in bringing out this project.

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