**LOCATION PREDICTION ON TWITTER USING MACHINE LEARNING TECHNIQUES**

A major project report submitted in partial fulfillment of the

requirement for the award of the degree of

### BACHELOR OF TECHNOLOGY

### In

### COMPUTER SCIENCE AND ENGINEERING

By

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### Under the esteemed guidance of

**Ms. K. Kavitha**

**(Head of the Department, IT)**



**AURORA’S TECHNOLOGICAL AND RESEARCH INSTITUTE**

(Affiliated to JNTU, Hyderabad and approved by AICTE, New Delhi)

Parvathapur, Uppal, Hyderabad – 500098

**2021-2022**

**AURORA’S TECHNOLOGICAL & RESEARCH INSTITUTE**

**(Affiliated to JNTU, Hyderabad)**

**Parvathapur, Uppal, Hyderabad-500098**



**DECLARATION**

We hereby declare that the work described in this project, entitled ‘**LOCATION PREDICTION ON TWITTER USING MACHINE LEARNING TECHNIQUES”** which is being submitted by us in partial fulfilment for the award of Bachelor of Technology in Computer Science and Engineering to **AURORA’S TECHNOLOGICAL AND RESEARCH INSTITUTE** is the result of investigation carried by us under the guidance of **Ms. K. Kavitha, Head of the Department, IT.**

The work is original and has not been submitted for any degree of this or any other university.

Place: Hyderabad

Date:

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**CERTIFICATE**

This is to certify that the major project report entitled “**LOCATION PREDICTION ON TWITTER USING MACHINE LEARNING TECHNIQUES”** that is being submitted by **Abbas Hussain Muzammil (18841A0562), Soma Ram Vighnesh (18841A05A9), and S.Yashwanth Yadav (19845A0507)** in partial fulfilment for the award of the Degree of Bachelor of Technology in Computer Science and Engineering to the Jawaharlal Nehru Technological University is a record of bonafide work carried out by them under our guidance and supervision.

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| --- | --- |
| **GUIDE**  **Ms. K. Kavitha**  Head of the Department  Department of IT | **PROJECT COORDINATOR**  **Ms. V. Shilpa**  Associate Professor  Department of CSE |
| **HEAD OF THE DEPARTMENT**  **Ms. Durga Pavani** | **DIRECTOR**  **Mr. Srikanth Jatla** |

**EXTERNAL EXAMINER**

**ACKNOWLEDGEMENT**

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**Abstract**

Location prediction of users from online social media brings considerable research these days. Automatic recognition of location related with or referenced in records has been investigated for decades. As a standout amongst the online social network organization, Twitter has pulled in an extensive number of users who send a million of tweets on regular schedule. Because of the worldwide inclusion of its users and continuous tweets, location prediction on Twitter has increased noteworthy consideration in these days. Tweets, the short and noisy and rich natured texts bring many challenges in research area for researchers. In proposed framework, a general picture of location prediction using tweets is studied. In particular, tweet location is predicted from tweet contents. By outlining tweet content and contexts, it is fundamentally featured that how the issues rely upon these text inputs. In this work, we predict the location of user from the tweet text exploiting machine learning techniques namely Naive Bayes, Support Vector Machine and Decision Tree.