***A***

***Major Project Report On***

**“T-CLOSENESS THROUGH MICRO AGGREGATION STRICT PRIVACY WITH ENHANCED UTILITY PRESERVATION”**

Submitted to

**SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY, HYDERABAD**

in partial fulfillment of the requirement

For the award of the degree of

**BACHELOR OF TECHNOLOGY**

**In**

**INFORMATION TECHNOLOGY**

**By**

**K.SUDEEPTHA 15D41A1226**

**G.HARINI 15D41A1217**

**B.MEGHANA 15D41A1209**

**Under the Esteemed guidance of**

**MRS.G.UMA MAHESHWARI**

**Assistant Professor**

****

**DEPARTMENT OF INFORMATION TECHNOLOGY**

****

**SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY**

**(An Autonomous institution under UGC, Accredited by NBA,Affiliated to JNTUH)**

**Department of Information Technology**

****

**CERTIFICATE**

This is to certify that the major project entitled

**“T-CLOSENESS THROUGH MICRO AGGREGATION STRICT PRIVACY WITH ENHANCED UTILITY PRESERVATION”**

Submitted by

**K.SUDEEPTHA 15D41A1226**

**G.HARINI 15D41A1217**

**B.MEGHANA 15D41A1209**

In partial fulfillment for the award of Bachelor of Technology in Information Technology to the SICET, is a record of Bonafide work carried out by them under my guidance and supervision during academic year 2018-2019.

**MRS.G.UMA MAHESHWARI DR. P. APPALA NAIDU**

**Internal**  **H.O.D, I.T**

**ExternalExaminer Date………………….**

**DECLARATION**

We hereby declare that the major project work entitled by **“T-CLOSENESS THROUGH MICRO AGGREGATION STRICT PRIVACY WITH ENHANCED UTILITY PRESERVATION”**done by me under the guidance of MS **CH.PAVANI M.Tech**, Assistant Professor, in the department of **INFORMATION TECHNOLOGY**.

This mini project is submitted to SICET, Hyderabad for partial fulfillment of requirements for the award of degree of **BACHELOR OF TECHNOLOGY** in **INFORMATION TECHNOLOGY**. During the academic year 2018-2019.

We also hereby declare that this major project have not been submitted in partial or full to any other university for any degree.

**k.SUDEEPTHA 15D41A1226**

**G.HARINI 15D41A1217**

**B.MEGHANA 15D41A1209**

**ACKNOWLEDGMENT**

We would like to express my sincere thanks to **Dr.P.MALLESHAM,** **Principal,** SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY, for his kind co-operation in completion of this project.

We would like to express my sincere thanks to **Mr**.**APPALANAIDU, Incharge H.O.D I.T Department**, SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY for his kind co-operation in completion of this project.

We deeply indebted to my Internal Guide **MRS.G.UMA MAHESHWARI** , Assistant Professor, Dept. of I.T SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY, affiliated to J.N.T.University, Hyderabad, for her valuable guidance and support throughout the course of project work.

We would like to express my sincere thanks to Laboratory Faculty and Teaching Faculty of SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY, for their kind co-operation in completion of this project.

We would like to express our sincere thanks to our parents for their care and moral support in finishing our project.

**Table of Contents**

**ABSTRACT**

**LIST OF FIGURES PAGE NUMBER**

**1. INTRODUCTION 1**

**1.1 Overview**

**1.2 Types of relationships**

**1.3 Characteristics**

**1.4 Advantages**

**2. LITERATURE SURVEY 6**

**2.1 Introduction**

**2.1.1 Feasibility Study**

**2.1.2 Technical Feasibility**

**2.1.3 Economical Feasibility**

**2.1.4 Social Feasibility**

**2.2 Existing System**

**2.3 Proposed System**

**3. ANALYSIS 11**

**3.1 Hardware Requirements**

**3.2 Software Requirements**

**4 DESIGN 12**

**4.1 ER diagram**

**4.2 DFD diagram**

**4.3 UML diagram**

**5. IMPLEMENTATION 19**

**5.1 Modules**

**5.2 Input**

**5.3 Output**

**5.4 Sample Code**

**6. SCREENSHOTS 26**

**7. TESTING 35**

**7.1 System Testing**

**7.1.1 White Box Testing**

**7.1.2 Black Box Testing**

**7.2 Unit Testing**

* 1. **Integration Testing**
  2. **User Acceptance Testing**

**8. CONCLUSION AND FUTURE WORK 38**

**9. REFERENCES 40**

**LIST OF FIGURES**

Figure 1.1 structure of datamining 01

Figure 4.1 system archeticture 12

Figure 4.2 dataflow diagram 13

Figure 4.3 Uml diagram 14

**LIST OF SCREENS**

Screen 6.1 Displaying Home Page 43

Screen 6.2 Sign up Page 44

Screen 6.3 Sign in Page 45

Screen 6.4 User Home Page 46

Screen 6.5 User Profile Page 47

Screen 6.6 Search Results Page 48

**ABSTRACT**

Personalized web search (PWS) has demonstrated its effectiveness in improving the quality of various search services on the Internet. However, evidences show that users’ reluctance to disclose their private information during search has become a major barrier for the wide proliferation of PWS. We study privacy protection in PWS applications that model user preferences as hierarchical user profiles. We propose a PWS framework called UPS that can adaptively generalize profiles by queries while respecting user specified privacy requirements. Our runtime generalization aims at striking a balance between two predictive metrics that evaluate the utility of personalization and the privacy risk of exposing the generalized profile. We present two greedy algorithms, namely **GreedyDP and GreedyIL**, for runtime generalization. We also provide an **online prediction** mechanism for deciding whether personalizing a query is beneficial. Extensive experiments demonstrate the effectiveness of our framework. The experimental results also reveal that GreedyIL significantly outperforms GreedyDP in terms of efficiency.