

SOCIAL Q&A: SOCIAL NETWORK BASED QUESTION AND ANSWER SYSTEM

*A project report submitted in partial fulfillment of the requirements for the award of
the Degree of*

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

Submitted by

G.CHINNI
Reg.No.15811A0522

B.ANJANA GAYATHRI
Reg.No.15811A0510

L.RAVALI
Reg.No.15811A0539

B.LOKESH
Reg.No.15811A0506

Under the guidance of

Mr. G.L.CHANDRA SEKHARA RAO
Assistant professor

Department of Computer Science and Engineering



AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi & Permanently affiliated to JNTU Kakinada)

(Accredited by NAAC, UGC & NBA, AICTE)

MAKAVARAPALEM, NARSIPATNAM,

VISAKHAPATNAM-531113

(2015-2019)

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by AICTE, New Delhi & Permanently affiliated to JNTU Kakinada)
(Accredited by NAAC, UGC & NBA, AICTE)
MAKAVARAPALEM, NARSIPATNAM,
VISAKHAPATNAM-531113



CERTIFICATE

This is to certify that the project entitled "SOCIAL Q&A: SOCIAL NETWORK BASED QUESTION AND ANSWER SYSTEM" in partial fulfillment for the of degree of Bachelor of Technology in COMPUTER SCIENCE AND ENGINEERING, at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM, VISAKHAPATNAM is an bonafide work carried out by G.CHINNI (15811A0522), L.RAVALI (15811A0539), BANJANA GAYATHRI (15811A0510), B.LOKESH (15811A0506) under the guidance and supervision during 2018-2019.

G.L.Chandra Sekhara Rao
Project Guide

G. Sathyanarayana
Head of the Department

[Signature]
External Examiner

ABSTRACT

Question and Answer (Q&A) systems play a vital role in our daily life for information and knowledge sharing. Users post questions and pick questions to answer in the system. Due to the rapidly growing user population and the number of questions, it is unlikely for a user to stumble upon a question by chance that (s) he can answer. Also, altruism does not encourage all users to provide answers, not to mention high quality answers with a short answer wait time. The primary objective of this paper is to improve the performance of Q&A systems by actively forwarding questions to users who are capable and willing to answer the questions. To this end, we have designed and implemented Social Q&A, an online social network based Q&A system. Social Q&A leverages the social network properties of common-interest and mutual-trust friend relationship to identify askers through friendship who are most likely to answer the question, and enhance the user security. We also improve Social Q&A with security and efficiency enhancements by protecting user privacy and identifies, and retrieving answers automatically for recurrent questions. We describe the architecture and algorithms, and conducted comprehensive large-scale simulation to evaluate Social Q&A in comparison with other methods. Our results suggest that social networks can be leveraged to improve the answer quality and asker's waiting time. We also implemented a real prototype of Social Q&A, and analyze the Q&A behavior of real users and questions from a small-scale real-world Social Q&A system.