AN ANDROID APPLCATION ON TRAFFIC ENQUIRY WITH BIO-METRIC

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

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

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

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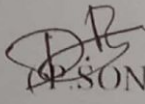(Accredited by NAAC, UGC & NBA, AICTE)
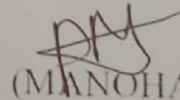
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CERTIFICATE

This is to certify that the project entitled "AN ANDROID APPLCATION ON TRAFFIC ENQUIRY WITH BIO-METRIC" 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 bonafied work carried out by G.INDHRAVATHI (16811A0531), D.JAGADESWAR RAO (16811A0517), M.SAI VENKAT SRIKANTH (16811A0549) K.GRISHMA (16811A0536), K.LEELA PRASAD (16811A0535) under the guidance and supervision during 2019-2020.

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PROJECT GUIDE　　　　**HEAD OF THE DEPARTMENT**

EXTERNAL EXAMINER

ABSTRACT

With the rapid development of smartphones in recent years, we have witnessed an exponential growth of the number of mobile apps. Considering the security and management issues, network operators need to have a clear visibility into the apps running in the network. To this end, this paper presents a novel approach to generating the fingerprints for mobile apps from network traffic. The fingerprints that characterize the unique behaviors of specific mobile apps can be used to identify mobile apps from the real network traffic. In order to handle the large volume of traffic efficiently, we use non-negative matrix factorization (NMF) to perform traffic analysis to cluster similar network traffic into groups. Then, access patterns of individual apps that are extracted from each group can be used as fingerprints distinguishing apps from others uniquely. The experimental evaluations show that the proposed approach can identify the mobile apps from random and mixed network traffic with high precision.