

### **CERTIFICATE**

This is to certify that M. TEJA (2100010002), K. SURESH (2100010003), and K. SOWMYA (2100010004) of M.C.A. has Satisfactorily completed the dissertation work entitled "CONNECTING SOCIAL MEDIA TO E-COMMERCE: COLD-START PRODUCT RECOMMENDATIONS USING MICROBLOGGING INFORMATION" in the partial fulfillment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of Dr. D. RAMESH Asst. Prof, Department of Computer Science, Kakatiya University.

Head HEAD

Department of Computer Science KAKATIYA UNIVERSITY

WARANGAL-596009 (T.S.)

External

Supervisor



### **CERTIFICATE**

This is to certify that JAKKULA POOJA (21000I0039) TADAVENI VENKATESH (21000I0040) DEEKONDA PAVANI (21000I0041) of M.C.A. has Satisfactorily completed the dissertation work entitled "SPAMMER DETECTION AND FAKE USER IDENTIFICATION ON SOCIAL NETWORKS" in the partial fulfillment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of M. VENUGOPAL REDDY, Asst. Prof, Department of Computer Science, Kakatiya University.

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### **CERTIFICATE**

This is to certify that RIZWANA (21000I0051), ATUROJU MANISHA (21000I0053), GOVINDA PAVANI (21000I0054) of M.C.A. has

PREDICTING CYBER HACKING BREACHES" in the partial fulfillment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of M.VENUGOPAL REDDY Asst.prof, Department of Computer Science, Kakatiya University.

(Head)AD

Department of Computer Science KAKATIYA UNIVERSITY WARANGAL-506009 (T.S.)

(Supervisor)



### **CERTIFICATE**

This is to certify that B. ASHOK (21000I0012), JANAPATLA RASHMITHA (21000I0013) of M.C.A. has Satisfactorily completed the dissertation work entitled "ANDROID MALWARE DETECTION USING GENETIC ALGORITHM BASED OPTIMIZED FEATURE AND MACHINE LEARNING" in the partial fulfillment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of Asst Prof. M. VENUGOPAL REDDY, Department of Computer Science, Kakatiya University.

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#### **CERTIFICATE**

This is to certify that SANGEM NAVYA (2100010025),

VAATHALA GANESH (2100010026), GUNDEBOINA SRUJANA (2100010027) of M.C.A. has Satisfactorily completed the dissertation work entitled "NETWORK INTRUSION DETECTION BY USING SUPERVISED MACHINE LEARNING TECHNIQUE WITH FEATURE SELECTION" in the partial fulfillment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of M. VENUGOPAL REDDY (Asst.Prof.), Department of Computer Science, Kakatiya University.

Department of Computer Science KAKATIYA UNIVERSITY KAKAIITA UNIVEHOIIT WARANGAL-986009 (T.S.)

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#### **CERTIFICATE**

This is to certify that UDUTHA SOUMYA (2100010045), GAJULA AKHIL(2100010046),GUTHIKONDA VARAPRASAD(2100010047) of M.C.A. has Satisfactorily completed the dissertation work entitled "DETECTION OF CYBER ATTACK IN NETWORK USING MACHINE LEARNING TECHNIQUES " in the 2022 under partial fulfilment of the requirements of M.C.A. during this academic year 2020-the guidance of Dr. B. MANJULA, Asst. Prof, Department of Computer Science, Kakatiya University.

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### **CERTIFICATE**

This is to certify that GUJJE PRAKHYATH (2100010031), GAJARLA SATHISH (2100010034), MANKALA PALLAVI (2100010035) of M.C.A. has Satisfactorily completed the dissertation work entitled "FILTERING INSTAGRAM HASHTAGS THROUGH CROWD TAGGING AND THE HITS ALGORITHM" in the partial fulfillment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of Dr. B. MANJULA Asst. Prof., Department of Computer Science, Kakatiya University.

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KAKATIYA UNIVERSITY

VIDYARANYAPURI, WARANGAL-506009



#### CERTIFICATE

This is to certify that M. RAVALI (2100010019), M. BHARGAVI (2100010020), N. KARTHIK (2100010021) of M.C.A. has Satisfactorily completed the dissertation work entitled " Credit Card Fraud Detection Using Random Forest and Cart Algorithm" in the partial fulfilment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of DR.B. MANJULA, Department of Computer Science, Kakatiya University.

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(Head)

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WARANGAL- 506009 '



#### **CERTIFICATE**

This is to certify that VISHWANATHULA SHRUTHI (2100010005), BANOTH SHIRISHA (2100010006), VANKUODTHU PRASHANTH (2100010007) of M.C.A. has Satisfactorily completed the dissertation work entitled "USE OF ARTIFICIAL NEURAL NETWORKS TO IDENTIFY FAKE PROFILES" in the partial fulfillment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of Dr. B. MANJULA Asst. Prof, Department of Computer Science, Kakatiya University.

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### CERTIFICATE

This is to certify that AKULA RAJASHEKAR (2100010008),

KASHAVOINA RAJANIKANTH (2100010010) of M.C.A. has Satisfactorily completed the dissertation work entitled "A SECURE AND DYNAMIC MULTI-KEYWORD RANKED SEARCH SCHEME OVER ENCRYPTED CLOUD DATA" in the partial fulfillment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of Dr. D. RAMA, Asst. Prof, Department of Computer Science, Kakatiya University.

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### **CERTIFICATE**

This is to certify that JATOTH JHANSI LAXMI (2100010022), DUMPETI MEGHANA (2100010023), GADAPAKA ARAVIND (2100010024) of M.C.A. has satisfactorily completed the dissertation work entitled "AUTOMATIC FACIAL EXPRESSION RECOGNITION USING FEATURES EXTRACTION BASED ON SPATIAL & TEMPORAL SEQUENCES USING CNN & RNN ALGORITHMS" in the partial fulfillment of the requirements of M.C.A. during this academic year 2021-2022 under the guidance of Dr. B. RAMA, Asst. Prof, Department of Computer Science, Kakatiya University.

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Department of Computer Science KAKATIYA UNIVERSITY WARANGAL-506009 (T.S.) SUPERVISOR

### UNIVERSITY COLLEGE KAKATIYA UNIVERSITY HANAMKONDA – 506 009. COMPUTER SCIENCE & INFORMATICS DEPARTMENT



#### **CERTIFICATE FROM HOD**

This is to certify that the project work entitled "A USER CENTRIC MACHINE

#### LEARNING FRAMEWORK FOR CYBER SECURITY OPERATIONS CENTER"

being submitted by P. SAIKIRAN, B. USHASRI, V. BHANU PRASAD to University

College Kakatiya University, in partial fulfillment of Masters of Computer

Applications, is a record of bona fide work carried by them.

External Examiner

Head of the Department,

Department

Department of Computer Science KAKATIYA UNIVERSITY WARANGAL-506009 (T.S.)

KAKATIYA UNIVERSITY WARANGAL- 506009 '



### **CERTIFICATE**

This is to certify that VEERAMALLA SRIDHAR — H.T.NO.2100010036, KANAKAM SAMUEL PAUL KUMAR — H.T. NO. 2100010037, KARUPAKA NARESH BABU — H.T.NO. 2100010038) of M.C.A. has Satisfactorily completed the dissertation work entitled "IRIS RECOGNIZATION USING MACHINE LEARNING TECHNIQUES" in the partial fulfillment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of Dr. B. RAMA Asst. Prof., Department of Computer Science, Kakatiya University.

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(Supervisor)



### **CERTIFICATE**

This is to certify that THIPPANAVENI VAMSHI KRISHNA (2100010048), ARIGELA ALEKYA (2100010049), PADIGELA CHANDU (2100010050) of M.C.A. has Satisfactorily completed the dissertation work entitled "CUSTOMER LOAN PREDICTION ANALYSIS" in the partial fulfillment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of Dr. B. RAMA, Asst.Prof, Department of Computer Science, Kakatiya University.

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### **CERTIFICATE**

This is to certify that DUMPA ANUPAMA (21000I0028),BOOMA SUSMITHA(2100010029), DHARLA RAJU(2100010030) of M.C.A. has Satisfactorily completed the dissertation work entitled "ANALYSIS OF WOMEN SAFETY IN INDIAN CITIES USING MACHINE LEARNING ON TWEETS" in the partial fulfillment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of Dr. D.RAMESH, Asst. Prof, Department of Computer Science, Kakatiya University.

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### **CERTIFICATE**

This is to certify that A. SAI KUMAR (2100010042), S. PRAVALIKA (2100010043), P. SHAILENDRA (2100010044) of M.C.A. has Satisfactorily completed the dissertation work entitled "BIGMART SALES PREDECTION USING MACHINE LEARNING WITH PYTHON" in the partial fulfillment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of Asst. Prof. Dr. D. RAMESH, Department of Computer Science, Kakatiya University.

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### CERTIFICATE

KOMURAJU LAVANYA (21000I0055), This is to certify that DUSA VAISHNAVI(2100010056), VADLAKONDA CHANDRASHEKAR (21000I0057) of M.C.A. has Satisfactorily completed the dissertation work entitled "PHISHING - WEBSITE DETECTION USING MACHINE LEARNING" in the partial fulfillment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of Dr. D. RAMESH, Asst. Prof, Department of Computer Science, Kakatiya University.

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### **CERTIFICATE**

This is to certify that SURYADEVARA NAVYA (2100010014), MOHAMMED AFROZ (2100010016), KONREDDY SAMATHA (2100010018) of M.C.A. has Satisfactorily completed the dissertation work entitled "SECURE DATA SHARING IN CLOUD COMPUTING USING REVOCABLE-STORAGE IDENTITY-BASED ENCRYPTION" in the partial fulfillment of the requirements of M.C.A. during this academic year 2020-2022 under the guidance of Dr. D. RAMESH, Asst. Prof, Department of Computer Science, Kakatiya University.

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