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## GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY A Unit of USHODAYA EDUCATIONAL SOCIETY

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUA, Anantapuram)

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3rd Mile, Bombay Highway, Gangavaram (V), Kovur (M), SPSR Nellore (Dt), Andhra Pradesh, India-524137

#### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "A DEEP LEARNING ARCHITECTURE FOR BRAIN TUMOR IMAGE SEGMENTATION IN MRI" is a bonafide record done by M. UMAR FARROQ (192U5A0502), T. ESWAR (182U1A05A5), S. SURESH BABU (182U1A0597) in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B.Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

Head of the Department Head of the Department Accomputer Science & Engineering.

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## BONAFIDECERTIFICATE

This is to certify that the project work entitled "AN EFFICIENT METHODOLOGY FOR CLICK FRAUD DETECTION FOR MOBILE APPLICATIONS" is a bonafide record done by P. KAVYA (182U1A0572), P. TEJASWINI (182U1A0569), P. UMA BHUVANESWARI (182U1A0566), P. DIVYA SRI (182U1A0581) in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B. Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "AN EVALUATION OF MACHINE LEARNING AND DEEP LEARNING ALGORITHMS FOR PREDICTING STOCK MARKET TRENDS USING CONTINUOUS AND BINARY DATA" is a bonafide record done by O.SRUJAN (182U1A0561), P.HARSHAVARDHAN (182U1A0574), P.VIVEK VISHNUVARDHAN (182U1A0577), A.VENKATESH (192U5A0501), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University. Anantapur in the partial fulfillment for the award of B.Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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#### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "ANALYSIS OF COLLEGE STUDENTS CAMPUS DATA USING DATA MINING" is a bonafide record done by G.GURU MANASA (1821/1A0525). K.AKHILA (18201A0540), K.RAJASRI (1820IA0546), K.NEEHARIKA (1820IA0547), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University. Anantapur in the partial fulfillment for the award of B.Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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## BONAFIDE CERTIFICATE

This is to certify that the project work entitled "CLASSIFICATION OF RICE LEAF DISEASES USING VGG WITH TRANSFER LEARNING" is a bonafide record done by P.VINEESHA (182U1A0568), V. MANASA (182U1A05B2), P. RAMYA SREE (182U1A0582), PVSN KAVYA (182U1A0567) and P. HAVANYA (182U1A0578), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B. Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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#### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "A COMPARITIVE STUDY OF CLASSIFICATION ALGORITHMS IN THE CONTEXT OF SENTIMENT ANALYSIS OF TOURIST PLACE REVIEWS" is a bonafide record done by V. PRASAD REDDY(182U1A0576), R.V.R.AVINASH(182U1A0585), R. PRAVEEN KUMAR(182U1A0584), Y.SUBBA REDDY(182U1A05B9), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B. Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "DETECTING FACIAL EMOTIONS USING CONVOLUTIONAL NEURAL NETWORKS" is a bonafide record done by D. VENU (182U1A0521), G.ABHISHEK(182U1A0524), M.SARATHCHANDRA(182U1A0550) in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B. Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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## BONAFIDE CERTIFICATE

This is to certify that the project work entitled "EFFICIENCY OF HEART DISEASE PREDICTION USING GENETIC ALGORITHM" is a bonafide record done by B. SRI KAVYA (182U1A0510) , L. REKIIA (182U1A0549), K. CHANDANA (182U1A0545), B. PRANAVI (182U1A0509), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B. Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "Evaluation of User Trust in Social Media" is a bonafide record done by P.PRIYADARSHINI (182U1A0580),

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## BONAFIDE CERTIFICATE

This is to certify that the project work entitled "Formulation of Driving Decision Strategy for Autonomous Vehicles using Machine Learning" is a bonafide record done by SHAIK MUDAM YASEEN (182U1A0593), SHAIK AHMAD BASHA (182U1A0589), SHAIK SAIF ALI (182U1A0594) in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University. Anantapur in the partial fulfillment for the award of B. Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "IDENTIFICATION OF BIRD SPECIES USING DEEP LEARNING" is a bonafide record done by D.ABISHAKE REDDY(182U1A0520), G.PREMKRISHNA(182U1A0523), G.SATHISH(182U1A0528), M.SREENIVASULU(182U1A0553) in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nebru Technological University. Anantapur in the partial fulfillment for the award of B.Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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#### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "IDENTIFING FAKE IMAGES USING CNN" is a bonafide record done by B.SNEHA SAI (182U1A0506), N.SRILAKSHMI (182U1A0560), K.SOWMYA (182U1A0548), J.NIKHILA (182U1A0530), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B. Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "IDENTIFYING MENTAL DISORDERS IN SOCIAL MEDIA THROUGH EMOTIONAL PATTERNS" is a bonafide record done by M. YAMUNA (182U1A0559). K. PRAVALLIKA (182U1A0535). K. NAGAVINITHA REDDY (182U1A0543). M. POOJITHA (182U1A0557), in the department of Computer Science & Engineering. Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B.Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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BONAFIDE CERTIFICATE

This is to certify that the project work entitled "ILLEGAL FISHING DETECTION USING MACHINE LEARNING" is a bonafide record done by P. SAKETH (182U1A0570), Y. ASWITH KUMAR (182U1A05C0), V. VAMSÍ (182U1A05B4), T. CHETHAN CHOWDARY (182U1A05A0), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B. Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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## BONAFIDE CERTIFICATE

This is to certify that the project work entitled "LOCKDOWN IN INDIA DURING COVID19: A SENTIMENT ANALYSIS" is a bonafide record done by M. MOUNIKA (182U1A0551), J.
C. RIYA REDDY (182U1A0534), G. PRANA VARSHITHA (182U1A0529), A. SUJATHA (182U1A0503) in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University. Anantapur in the partial fulfilment for the award of B. Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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#### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "LOW LIGHT IMAGE ENHANCEMENT" is a bonafide record done by ABBU VENKATA ASWINI(182U1A0501), BURLA SUSMITHA (182U1A0511), CHENTHATI MEGHANA(182U1A0515), JANGITI YASASWINI(182U1A0532), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B.Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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## BONAFIDE CERTIFICATE

This is to certify that the project work entitled "MINING FRAUDSTERS AND FRAUDULENT STRATEGIES IN TELECOMMUNICATIONS" is a bonafide record done by T. LAKSHMI SRAVYA (182U1A05A3), V.RAGA PRIYA(182U1A05B1) ,V.TEJASWINI (182U1A05B3), V. RAMYA SMILY (182U1A05B5), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B.Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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Head of the Computer Science & Engg. GEETHAN JALILINSTITUTE OF SCIENCE & TECHNOLOGY GANGAVARANTO, ROYUR (M).

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# GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY A Unit of USHODAYA EDUCATIONAL SOCIETY

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Recognized under Sec. 2(f) & 12(B) of UGC Act, 1956
3rd Mile, Bombay Highway, Gangavaram (V), Kovur (M), SPSR Nellore (Dt), Andhra Pradesh, India-524137

### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "MODELING THE DIFFUSION OF INFLUENCE OVER SIGNED SOCIAL NETWORKS" is a bonafide record done by Y.V.N. SPANDANA (182U1A05B8), R. VINEELA (182U1A0587), V. KANCHANA (182U1A05B6), P. RAJESWARI (182U1A0564), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B. Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

Assistant Professor Department of CSE

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#### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "MULTI AUTHORITY ATTRIBUTE BASED KEYWORD SEARCH OVER ENCRYPTED CLOUD DATA" is a bonafide record done by SKARIFA (182U1A0592), P.DIVYA KEERTHIKA (182U1A0579), T.NIKHILA SREE (182U1A05A7), R.ANJALI KARTHIKA (182U1A0583), V.SRI MOUNIKA(182U1A05B7), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B.Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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#### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "MUSIC RECOMMENDATION SYSTEM BASED ON EFFECTIVENESS OF HASHTAGS" is a bonafide record done by G.NIKHII.A (182U1A0527), J.BHAVANA (182U1A0531). K.PREETHI(182U1A0539), M.PAVANI(182U1A0556), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B.Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "PERFORMANCE ANALYSIS OF MACHINE LEARNING ALGORITHMS IN RAINFALL PREDICTION" is a bonafide record done by CH.BHAVANA(182U1A0514), K.GIRINANDINI(182U1A0538), D.RICHITHA REDDY(182U1A0522), K.VEDA SIVANI(182U1A0537), K.SUDEEPIKA(182U1A0541) in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapurin the partial fulfillment for the award of B.Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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## BONAFIDECERTIFICATE

This is to certify that the project work entitled "PREVENTING FRAUD INFORMATION SPREADING IN MOBILE SOCIAL NETWORKS USING INFORMATIONDIFFUSIONMODEL" is abona fiderecord done by K. MOUNIKA (182U 1A0536), J. SIVANI (182U 1A0533), G. SUSHMA (182U 1A0526), G. C. SRI. NIKITHA (183G 1A0522) in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapurin the partial fulfillment for the award of B. Techdegree in Computer Science & Engineering. This work has be encarried out undermy supervision.

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## BONAFIDE CERTIFICATE

This is to certify that the project work entitled "PRIVACY PRESERVING CRIMINAL SUSPECTS SENSING IN SOCIAL NETWORK" is a bonafide record done by SK. AMEENA (182U1A0590), P. RUCHITHA (182U1A0575), P. SRI VAISHNAVI (182U1A0573), T. SILPA (182U1A05A2), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nelmi Technological University, Anantapur in the partial fulfillment for the award of B. Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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#### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "PRODUCT RECOMMENDATION SYSTEM BASED ON META-PATH DISCOVERY" is a bonafide record done by P. TEJO PRASANTHI (182U1A0571), T. NISHITHA (182U1A0598), T. HARI KIRANMAI (182U1A0599), P. LAKSHMI PRIYA (182U1A0562) in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B. Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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#### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "PROTECTING USER DATA IN PROFILE MATCHING SOCIAL NETWORKS" is a bonafide record done by P.SRAVANI (182U1A0565). SK.ARFIYA TABASSUM (182U1A0591). T.V.MOUNIKA (182U1A05A8), SK.SUHANA (182U1A0595), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B.Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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## BONAFIDE CERTIFICATE

This is to certify that the project work entitled "SOCIAL NETWORK SPAM DETECTION USING IMPROVED INCREMENTAL FUZZY-KERNAL-REGULARIZED EXTREME LEARNING MACHINE (12FELM)" is a bonafide record done by A.MEGHANA (182U1A0504), M.SRAVANI (182U1A0558), D.SRAVANI (182U1A0519), M.RAMALAKSHMI (182U1A0552), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B.Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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#### BONAFIDE CERTIFICATE

This is to certify that the project work entitled "SPAM DETECTION FOR YOUTUBE COMMENTS" is a bonafide record done by CH. BHARATH KUMAR (182U1A0513), D. CHANDRASEKHAR (182U1A0518), A.M.V. SAI SRI TEJA (182U1A0502), C. BALAJI KUMAR (182U1A0516) in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B.Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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#### BONAFIDE CERTIFICATE

This is to certify that the project work entitled " USING BISECTING K-MEANS GROUP SHILLING ATTACKS IN TO FIND CLUSTERING SYSTEMS " is a bonafide record done by B.LAVANYA RECOMMENDATION (182U1A0507). CH.SAI PREETHI (182U1A0517), K.GREESHMA (182U1A0542). K.SRUTHI (182U1A0544), in the department of Computer Science & Engineering, Geethanjali Institute of Science and Technology, Nellore and is submitted to Jawaharlal Nehru Technological University, Anantapur in the partial fulfillment for the award of B.Tech degree in Computer Science & Engineering. This work has been carried out under my supervision.

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