Dr.G.Prasanna Lakshmi

Principal

SDS (Autonomous)Degree College of Arts and Applied Sciences.

FACULTY DEVELOPMENT PROGRAMMES

- Participated in EXCELR'S Virtual Training Programme held from **l3th October 2020** to **23'd October 2020** in the area of *"Simplifying Artificial Intelligence and Deep Learning for Students and Professionals".*
- Participated & completed successfully **AICTE Training And Learning (ATAL) Academy** online **FDP** *on* *"Cyber-physical production Systems"* from **2020-9-21 to 2020-9-25 at National Institute of Technology, Andhra Pradesh**.
- Participated in **EXCELR'S Virtual Training Programme** held on **31st October 2020 and 1st and 7th November 2020** in the area of Master in *"Image Processing".*

✝ RESEARCH PAPERS PRESENTED IN CONFERENCES

✓ At International Level

International Conference held in Royal Institute of Technology & Science, Hyderabad on 27'h February 2013 (RITS-IC 05704 on 27-02-2013).

2. Presented Research Paper titled *"An Approach for Storing the Medical Data of HIV Patients using Big Data Technologies"* in the 2"d International Conference on Applied Science Engineering and Technology (ICASEC-16) organized by Swetha Institute of Technology and Science (SITS), A.P. and Institute for Engineering Research & Publication (IFERP) on 18th - 19th October 2016.

3. Presented a Paper entitled *"Analysis and Identification of Cancerous Factors using Rule Based Classifier of Data Mining Techniques"* at the International Conference on Current Research in Electronics, Computer Science, Information Technology and Mechanical Engineering (ICECSITME) held at Pune, India on 16th April, 2017. (Paper ID: TA-ECSITME-MMBI-16047- 1897) .

4. Presented a Paper entitled *"Necessity of KIOSK Enabled Airport for Efficiency and Congestion Free Terminal"* at the International Conference on

Electrical, Electronics & Computer Science (ICEECS) held at Pune, India on 29t July, 2018. (Paper ID: AS-EECS-MMBI-15078- 2121).

5. Presented a Paper titled *"Prediction of Cancer Risk in Perspective of Symptoms using Naive Bayes Classifier"* in ISER International Conference, Mumbai in September 2017. ISBN: 9788192958047, Page no.: 59.

6. Presented a Paper titled *"Authentication Theory for Mobile Cloud Computing"* at International Conference (ICAASHTOGD-20) organized by Raja Balwant Singh Engineering Technical Campus, Agra. (GIS Science Journal) **Scopus listed.**

✠ PUBLICATIONS

✓ At International Level

1. G. PRASANNA LAKSHMI, Dr. J.A.Chandulal, Dr.Y.K.Gopal Krishna Patro *"Fingerprint Analysis and Matching using fuzzy logic design"* IOSR Journal of Computer Engineering (IOSRJCE), ISSN : 2278-0661 Volume 1, Issue 6 (July-Aug 2012), PP 04-08. Level: International, Impact Factor 3.7, Agency of Impact Factor: AQCJ.

2. G. PRASANNA LAKSHMI, Dr.J.A.Chandulal, Dr.Y.K.Gopal Krishna Patro *"Finger Print Image Compression for Extracting Texture Features and Reconstructing"* IOSR *Journal* of Computer Engineering (IOSRJCE), ISSN: 2278-0661 Volume 3, Issue 2 (July-Aug. 2012), PP 44-46, Level: international, Impact Factor: 1.64.

3. G. PRASANNA LAKSHMI, Dr.J.A Chandulal, Dr.Y.K.Gopal Krishna Patro *"Fingerprint reconstruction and compression using AM-FM demodulation techniques"* International Journal of Current research and Review (IJCRR). E-ISSN: 0975-5241 (Online), P-ISSN: 2231-2196 (Print). Level: International, Impact Factor 1.429, Agency of Impact Factor SJIF.

4. G. PRASANNA LAKSHMI, Dr.J.A Chandulal *"Fingerprint identification system combined with "CRYPTOGRAPHY"for authentication"*, International Journal of Engineering Science
and Technology (IJEST), Vol. 2(7), 2010, 3054-3077, Level: International, Impact Factor 3.14, Agency of Impact Factor: Index Copernicus.

5. G. PRASANNA LAKSHMI, Dr.J.A Chandulal, Dr.K.T.V Reddy, *"Water marking and compression of digital image using wavelet transform and sphit"* International Journal of Computer Science and Information Security, (IJCSIS) Vol 9, No.3, March 201 I, Level international, Impact Factor 0.423, Agency of Impact Factor: SCI Indexing and Thomson Reuters.

6. G. PRASANNA LAKSHMI, Dr.J.A.Chandulal, Dr.K.T.V.Reddy, *"An Improved Visual Cryptography Scheme for Secret Hiding"* International Journal of

Computer Science and Information Security (IJCSIS), Vol. 9, No.2, March 2011, Level: International, Impact Factor 0.423, Agency of Impact Factor: Sci indexing and Thomson Reuters.

7. G. PRASANNA LAKSHMI, Dr.J.A.Chandulal, Dr.Y.K.Gopal Krishna Patro *"Advanced Stegnography for Fingerprint Analysis and Authentication"* International Journal of Advanced Computer Technology (IJACT), ISSN: 2319-7900 Level international, Impact Factor 3.0, Agency of Impact Factor: MIAR ICDS.

8. G. PRASANNA LAKSHMI, Nikhat Nawaz, Syed Saifuddin, Altaf.C, *"Visible Watermarking Using Spread Spectrum"*, International Journal of Advanced Research in Engineering and Technology (IJARET), ISSN 0976-6480 (Print); ISSN 0976-649 (Online), Volume 4, Issue 3,
April 2013, pp. 108-114, Journal Impact Factor (2013): 5.8376 (Calculated by GISI).

9. G. PRASANNA LAKSHMI, Mr. Amo1 Joglekar, *"Detection of HIV and AIDS by Advance Algorithms"* International Journal of Electronics Communication and Computer Engineering (IJECCE) Volume 5, Issue 3, ISSN (Online): 2249 - 071X, ISSN (Print): 2278W209 Publication Page Numbers 626- 628, Level: International, Impact Factor 5.3, Agency of Impact Factor ICI.

10. G. PRASANNA LAKSHMI, Mr. Amol Joglekar, Maunash Jani, *"An implementation of Predictive Algorithm to Analyse Human Immunodeficiency Virus (HIV) Datasets in Medical Sector"* in 2016.

11. G. PRASANNA LAKSHMI, Mr.Amol Joglekar, *"Prediction percentage of severity in HIV Patients using data mining algorithm"*, International Journal of Advanced Computer Technology (IJACT), ISSN: 2319-7900. Publication Volume No. 3(6), Publication Page Numbers 72, ISSN NO. 2319-7900, Level: International, Impact Factor 3.0, Agency of Impact Factor MIAR ICDS.

12. G. PRASANNA LAKSHMI, Mr.Amol Joglekar, Maunash Jani, *"Extraction of Rules for predicting HIVInfections and Computing Support and Confidence"* International Journal of Mechanical Engineering and Information Technology **(IJMEIT)** Vol.03 Issue 05, May, Page No: 1274-1282, ISSN-2348-196x, Level: International, Impact Factor 5.505.

13. G. PRASANNA LAKSHMI, Mr. Amol Joglekar, Maunash Jani, *"Prediction Of Favorable Rules To Identify Suspected Patients Of HIV using Integration Of Expert System And Data Mining"* International Journal of Mechanical Engineering and Information Technology (IJMEIT) Month and Year of Publication March—2016, Publication Volume No. 4(3), Publication Page Numbers 1612, ISSN NO. 2348-196X, Level: International, Impact Factor 5.5.

14. G. PRASANNA LAKSHMI, Pallavi Mirajkar, Research Scholar, *"Prediction of Cancer in Patient by Analyzing Risk Factors"*, International Journal of Current Research and Review**(IJCRR),** 2017 January, Publication Volume No. 19(2), Publication Page Numbers 33, ISSN NO. 2278 8727, Level: International, Impact Factor 4.032.

15. G. PRASANNA LAKSHMI, Pallavi Mirajkar, Research Scholar, *"Automatic Tool For Prediction Of Type Of Cancer Risk And Recommendation"* International Journal of Scientific Research in Computer Science, Engineering and Information Technology **(USR CSEIT)**, Month and Year of Publication January—2019, Publication Volume No. 5(1), Issue 1, ISSN NO. 2456-330, Level: International, Impact Factor 4.032, Agency of Impact Factor: Thomas Reuters .

16. G. PRASANNA LAKSHMI, Pallavi Mirajkar, Research Scholar, *"An Integrated Cancer Prediction Using Data Mining Technique"* International Journal of Scientific Research in Computer Science, Engineering and Information Technology (USR CSEIT), Month and Year of Publication February—2018, Publication Volume No. 3(1), Publication Page Numbers 1497, ISSN NO. 2456-3307, Level: International, Impact Factor 4.032, Agency of Impact Factor: Thomas Reuters.

17. G. PRASANNA LAKSHMI, Rupali Dahake, Research Scholar, *"Weighted Impact and Ranking Model (WIRM) for Airport congestion"* International Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661, p-ISSN: 2278-8727, Volume 19, Issue 2, Ver.1 (Mar.- Apr.2017), PP 78-82, Level: International, Impact Factor: 3.7 Semanticscho1ar.org .

18. G. PRASANNA LAKSHMI, Rupali Dahake, Research Scholar, *"Advanced Analysis Of Passenger flow For Automated Service Devices At Airport Terminal", International Journal* of Scientific Research in Computer Science, Engineering and Information Technology (USR CSEIT), e-ISSN: 2456-3307, Volume 3, Issue 3, Publication Page Number 205, Impact Factor 4.032, Agency of Impact Factor: Thomas Reuters .

19. G. PRASANNA LAKSHMI, Rupali Dahake, Research Scholar, *"Statistical Model for Airport Access Mode Choice to Address Congestion at Airport",* International Journal of Engineering Research in Computer Science and Engineering (IJERCSE), ISSN (Online)- 2394-2320, Volume 4, Issue 9, September 2017, Publication Page Numbers 154, Level: International, Impact Factor 4.890, Agency of Impact Factor: Thomas Reuters .

20. G. PRASANNA LAKSHMI, Rupali Dahake, Research Scholar, *"Mathematical Model For Staff Scheduling To Manage Congestion At Airport",* International Journal of Mechanical and Production Engineering IRAJ-IJMPE, Volume 5, Issue 7, July 2017, Publication Page Numbers 54, ISSN NO. 2320-2092, Level: International, Impact Factor 4.022, Agency of Impact Factor: COSMOS .

21. G. PRASANNA LAKSHMI, Priya Tawde, Research Scholar, *"Enhancing Micro- ATMs and POS Terminals Authentication System Using Advanced Biometric Technique",* International Journal of Computer Engineering (IOSR-JCE), e-ISSN: 2278-0661, p-ISSN: 2278-8727, Volume 19, Issue 4, Ver. I (Jul - Aug 2017), PP 74-77, Level: International, Impact Factor 4.022, Agency of Impact Factor: SJIF.22. G. PRASANNA LAKSHMI, Jailingu Gowri, M.techstudent, Department of Computer Science and Systems Engineering, Andhra University College of Engineering, Visakhapatnam, *"Detection of abnormal Driving Behavior Patterns with*

Advanced Notifications'' International Journal of Computer Science and Technology (IJCST), Vol. 9, Issue 4, October—December 2018, Level: International, Impact Factor 7.481, Agency of Impact Factor SJIF.

23. G. PRASANNA LAKSHMI, Sagar Penumala, Department of Computer Science and Systems Engineering, Andhra University College of Engineering, Visakhapatnam *"Advanced Traffic Congestion Avoidance Algorithms",* International Journal of Management, Technology and Engineering, Volume 8, Issue XI, November 2018, ISSN NO : 2249-7455 . Level international, Impact Factor 6.3, Agency of Impact Factor: Thomas Reuters.

24.G. PRASANNA LAKSHMI, Vikram Patalbansi, Research Scholar, *"Protecting data on mobile cloud computing"* International *Journal* of Innovative Technology and Exploring Engineering (IJITEE), ISSN 2278-3075(Online), Volume 8, Issue-ll, September 2019, Impact Factor 5.54, **Scopus Indexed.**

25. G. PRASANNA LAKSHMI, Vikram Patalbansi Research Scholar," *Secure Wireless Communication for Mobile Cloud Computing Multimedia Contents"* GIS Science Journal, ISSN NO: 1869-9391, Volume-8, Issue 4,2021, Page NO 386-399.

26. G. PRASANNA LAKSHMI, *Vikram* Patalbansi Research Scholar, *"Authentication Theory for Cloud Computing"* JXAT Journal, Volume 11, Issue 10, October 2020, SCOPUS Journal, IF 3.7, ISSN 1006-7930.

27. G. PRASANNA LAKSHMI, Vikram Patalbansi Research Scholar, *"Survey on Security Challenges and Its Solutions on Mobile Cloud Computing",* Published in Juni Khayat, ISSN: 2278-4632, Volume 10, Issue 5, Month May, Year 2020, Impact Factor 6.625. The journal is indexed, peer reviewed and listed in UGC Care.

28. G. PRASANNA LAKSHMI, T Karun Karthik-BTech Student, Andhra University, **"Alerting and Controlling Criminal activities using a Nanorobot",** Published in GIS Science Journal, ISSN NO: 18869-9391, Paper ID: GSJ/3589, Volume 8, Issue 4, April 2021, Impact Factor 6.1.

29. G. PRASANNA LAKSHMI, *Vikram* Patalbansi Research Scholar, **"Mobile Cloud Computing and Cryptographic Scheme"**, published in Journal of University of Shanghai of Science and Technology, ISSN :*1007-6735,* Volume 23, Issue 6, June 2021, Page Numbers *1148-1156,* Paper ID JUSST/21-05-364. **SCOPUS Journal.**

ACADEMIC PROJECT GUIDANCE:

1.Title of Project: *Advance Management of Navy Forms* Year: **2019**

Description: Project by Akshay Kumar under my guidance for the award of degree of Master of Science in Computer Science.

2.Title of Project: *GPS Based Smart Garbage System using IOT*

Year: 2019 Description: Project by Chetan Kumar Rajapantula, Vasavi Pragya Velamala and Tulasi Desetti under my guidance for the award of degree of Bachelor of Technology in Computer Science and Systems Engineering (B.Tech).

3.Title of Project: *Prediction in Online Social Networks for Topic Rehotting by using a Temporal Model* Year: 2019 .

Description: Project by Vengala Jaya Bhargavi and Kotha Abhigna under my guidance for the award of degree of Bachelor of Technology in Computer Science and Systems Engineering (B.Tech).

4. Title of Project: *Secure and Efficient Product Information Retrieval in Cloud Computing* Year: 2019 .**Description:** Project by Jandavath Pavani Bai under my guidance for the award of degree of Masters of Computer Applications (MCA).

5. Title of Project: *Advanced Prediction Algorithm for Movie Success Rate*

Year: 2018 Description: Project by C. Abhimanyu, Y.V.N.S.S.S. Jayanth, M. Sai Vinay and M. Varun under my guidance for the award of degree of Bachelor of Technology in Computer Science and Systems Engineering (B.Tech).

6. Title of Project: *Advanced Traffic Congestion Avoidance Algorithms*

Year: 2018 Description: Project by Penumala Sagar under my guidance for the award of degree of Masters of Technology in Computer Science and Technology (M Tech).

7. Title of Project: *Agriculture Management System* Year: 2018

Description: Project by Kondapalli Sagar under my guidance for the award of degree of Masters in Computer Applications (MCA).

8. Title of Project: *City Bus information System* Year: 2018

Description: Project by Meriga Anusha under my guidance for the Award of Degree of Masters in Computer Applications (MCA)

9. Title of Project: *Data Guard for Detecting Modification of Content from the Fraudulent* Year: 2018 .Description: Project by Sangani Rajesh under my guidance for the award of degree of Masters in Computer Applications (MCA).

10. Title of Project: *Prediction Algorithm for Disaster Management with Internet of Things* Year: 2018 .Description: Project by Ommi Tanmai Krishna, Sritha Darbha and Swetha Kondur under my guidance for the award of degree of Bachelor of Technology in Computer Science and Engineering .
(B.Tech).

11. Title of Project: *Alignment Free Fingerprint Cryptosystem based on Fuzzy fault and Minutiae Local Structures* Year: 2017 .Description: Project by Dola Lavanya under my guidance for the award of degree of Master of *Local Structures* Year: 2017 .Description: Project by Dola Lavanya under my guidance for the award of degree of Master of Computer Applications (MCA).

12. Title of Project: *Detection of Drowsy Drivers Eye Blink Patterns using Image Processing and Mobile Computing* Year: 2017 .

Description: Project by Raghuveer Naraharisetti, Sai Krishna Vinnakota and David Prakash Didla under my guidance for the award of degree of Bachelor of Technology in Computer Science and System Engineering (B.Tech).

13. Title of Project: *Generic Crowd Sourcing Systems using Query Optimisation* .Year: 2017 .Description: Project by Bhogireddi Vineela under my guidance for the award of degree of Masters in Computer Applications (MCA).

14. Title of Project: *Maximisation of Associative Strengths by a Graph-Based Approach-Taxo Finder* Year: 2017 .

Description: Project by Tanniru Lakshmi Tirupatamma under my guidance for the award of degree of Master of Computer Applications (MCA).

15. Title of Project: *Search Based Image Annotation and Mining Weakly Labled Images from Cloud Computing* Year: 2017 .

Description: Project by Velpuri Surya Vathi under my guidance for the award of degree of Master of Science in Computer Science.

16. Title of Project: *Secured Two-Level QR Code for Private Message Sharing and Document Authentication* Year: 2017 .

Description: Project by Nethala Narayana Rao under my guidance for the award of degree of Masters in Computer Applications (MCA).

17. Title of Project: *Drowsy Driver Sleep Pattern Detection Using Image Processing and Mobile Computing* Year: 2016.

PhD RESEARCH GUIDE

Experience: **2014 onwards to till date.**

Approved Guide / Supervisor **for** Registered PhD **students** of Pacific Academy **of Higher Education and University,** Udaipur from **2015 to till date.**

✓ **Details of the PHD Thesis by the Research scholars are:**

1. **Research Scholar:** *Mr. Joglekhar* Amol *Mukund*

↪ PhD **Completed in 2018** March.

Topic: *Innovative techniques 7 algorithm for identifying HIV7AIDS using Predictive data mining algorithms.*

Thesis Details: The thesis proposes an innovative model which may detect the level of infection in patient's body. The proposed model has been constructed in such a way that it will record all the information of patient including his personal and private details. The system would be an automated one which can diagnose the same in no time. The model will show some probable symptoms and doctor has to choose the ones which patient is suffering from and the severity level. There would be a centralized depository for storing all types of data which would be in the form of structured and unstructured one. There

may be the possibility of having some relationship between symptoms so the proposed model would try to find out those.

� **Research Scholar**: Ms. Pallavi Bhavsar.

3.PhD Completed in August *2020.*

Topic: *Prediction of Cancer in Patients by Analyzing Risk Factors.*

Thesis Details: Multi-criteria decision analysis which is designed to determine the factors need to be consider and important with respect to identify cancer at early stage. The collected data is preprocessed, stored into the database and Classified according to significant patterns using decision tree algorithm. Then the data is clustered using K-means clustering algorithm to separate cancer and non-cancer patient data.

To develop an application on a Multi-criteria decision analysis which is designed to determine the factors need to be consider and important with respect to identify cancer at early stage. The collected data is preprocessed, stored into the database and classified according to significant patterns using Decision tree algorithm. Then the data is clustered using K- means clustering algorithm to separate cancer and non-cancer patient data.

� Research Scholar: Prof. Rupali Bhavsar.

4. **PhD Completed** in August *2020.*

Topic: *Advanced Airport Congestion Control Systems with Predictable Simulation techniques.*

Thesis Details: "Statistical Model for Airport Access Mode Choice for reducing Airport Congestions", the proposal is: Further the research will combine aircraft departure controls with the intent to improve the overall airport efficiency. Further efficiency will also be gained by reducing model uncertainties and investigating more advanced control techniques.

5. Research Scholar: Prof. Patalbhansi Vikram Ramlakhan

VIVA is Due.

� Topic: *Protecting Data on Mobile Cloud Computing.*

Thesis Details: Mobile Cloud Computing is a combination of general Cloud

Computing and Mobile Computing in which we have to access resources from the remote cloud data centre with the help of mobile electronics and peripherals like mobile smart phones, laptops, gadgets, etc. via Cellular Technology or Wireless Communication. Mobile devices have lots of resource constraints like storage capacity, processing speed, and battery life. Hence through simple mobile computing software and programming, we cannot manipulate on mobile devices of cloud data centre information. Due to such kinds

of difficulty, we have to process data or data through external mobile devices. Accessing and processing of data with the help of Trusted Third Party Agency (TPA) outside the cloud data centre and mobile devices have lots of security challenges.

The lots of terminologies and theory are put forward by various researchers to make cloud data secure over outside resources. In the thesis paper, we will analyze their approach and its limitations and come forward with our security algorithm proposal. In this article, we analyze the security framework for storing data on Cloud Server by Mobile and weakness of this process. Also, we will review the theory as to how data can be secure our data on cloud administrators.

6.Research Scholar:Mr.Sunil Nishankar

Security Analyst
IOT Security