

# National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

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## Curriculum Vitae



### Brief Profile:

Dr. Janet serves NIT, Tiruchirappalli for more than 15 years in the Department of Computer Applications.

She graduated B.Sc. (Physics) with Distinction from Holy Cross College, Trichy affiliated to the Bharathidasan University, Tiruchirappalli, obtained a Master of Computer Applications from Bishop Heber College, with a third rank from Bharathidasan University, Tiruchirappalli. She cleared the National Eligibility Test for Lectureship by UGC in 2001.

She started her research in Information Retrieval with a first class in Master of Philosophy in Computer Science from Alagappa University, Karaikudi, and a Ph. D. degree by the National Institute of Technology, Tiruchirappalli.

Dr. Janet has set up the first of its kind Information Processing and Security Laboratory at NITT, with Industry involvement. She has also set up a honey pot node as part of national cyber coordination center project funded by Meity and implemented by CDAC Mohali for cyber threat intelligence generation.

She is a convenor of the Centre of Excellence on Next Generation Emergency Response Support System which is a vision of the government of India in collaboration with CDAC Trivandrum. She is a champion of Open Source Open Community.

She has published more than 60 research papers in International Journals, Conferences and Book chapters of repute in the field of Data Science. She has been a professional facilitator of students. Her teaching experience includes experiments on activity-based learning, Learner centric teaching and flipped classroom.

She has visited Malaysia to present one of her research papers in a conference. She is also a reviewer for International Conferences and journals. She is presently the Life member of Computer Society of India, International Association of Engineers, ISTE, ISC and International Association of Computer Science and Information Technology. She is also an active senior member of IEEE and Professional member of ACM.

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1. Name: B. Janet
2. Designation: Assistant Professor
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Trichy – 620015
4. Telephone (Office): 0431 2503741  
9442648096
5. Mobile :
6. Email : janet(at)nitt(dot)edu
7. Field of Specialization: Information Processing and Security

## Employment Profile

Job Title	Employer	From	To
Assistant Professor (PB3 - 8000)	National Institute of Technology, Trichy.	12.03.2018	Till date
Assistant Professor (PB3 - 7000)	National Institute of Technology, Trichy.	21.04.2011	11.03.2018
Assistant Professor (PB3 - 6000)	National Institute of Technology, Trichy.	21.04.2006	20.04.2011
Lecturer(UGC-FIP Leave Vacancy)	Bishop Heber College, Trichy.	11.02.2005	20.04.2006
Lecturer (Self-Financing Section)	Bishop Heber College, Trichy	24.07.2002	10.02.2005

## Academic Qualifications:

Examination	Board / University	Year	Division/ Grade	Subjects
Ph. D.	National Institute of Technology,	2007 - 2012	First class with Distinction	Information Retrieval

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	Trichy			
M. Phil.	Alagappa University, Karaikudi	2003 - 2005	I Class	Computer Science
MCA	Bishop Heber College, Trichy (Bharathidasan University)	1999 - 2002	III Rank	Computer Applications
B. Sc.	Holy Cross College, Trichy (Bharathidasan University)	1996 - 1999	First class with Distinction	Physics
Higher Secondary	Holy Cross Girls Higher Secondary School, Trichy	1996	86.75	Biology & Maths
High School	Holy Cross Girls Higher Secondary School, Trichy	1994	93.6	SSLC

**Academic/Administrative Responsibilities within the University**

<b>Position</b>	<b>Faculty/Department/Centre/Institution</b>	<b>From</b>	<b>To</b>
Faculty Advisor	Social Responsibility Club	2021	Till date
Social Media Champion	Media and PR Team, NITT	2020	Till date
Faculty Advisor	Delta Club	2019	2021
Media Committee	Institute day 2021	2021	
PRM Committee	Convocation 2021	2021	
Media Committee	Institute day 2020	2020	
PRM Committee	Convocation 2020	2020	
Stock Verification	Library 19-20	2020	

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Officer			
Supervisor - Faculty Internship	AICTE Margdarshan Scheme NITT	2019	2020
Member	Swayam Task Force	2019	2022
Faculty In charge	Optima M. Sc. (C. S.) Symposium	2019	Till date
Coordinator	Siemens center of Excellence IoT Lab	20.01.2020	2022
Stock Verification Officer	Central Stores and Purchase	December 2019	February 2019
Design Head	PR and Media Cell	August 2019	Till date
Initiating Faculty, 360 Virtual Tour of NITT	PR and Media Cell	August 2018	July 2019
Vigilance Officer	Anti-ragging Vigilance Committee	July 2019	August 2019
Member	Convocation 2019, Press and Media Committee	June 2019	July 2019
Member, Content Management Committee	CSAB	May 2019	August 2019
Member, Public Relations Committee	Pragyan	2019	
Member, Public Relations Committee	NITTFEST	2019	
Member, Seating and Logistics Committee	Convocation	2018	
Member, Presentation Committee	Institute Day	March 2019	
Member, Report on Achievements Committee Member	Institute Day	March 2018	April 2018
Safety and Security	NITT	October 2017	

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Committee Department Representative			
Convocation seating and Logistics Committee – Department Representative	NITT	28.06.2017	12.08.2017
Member	NITT Community Radio Station	2016	till date
Member	Hospital Committee	2012	2015
Stock Verification Officer	Stock Verification Officer for Hostels	2009	2012
Stock Verification Officer	Stock Verification Officer for Mechanical Department	2012	2013
Member	MIS Committee	2012	2014
Faculty Advisor	Open Source Club	2012	till date
Faculty Advisor	Adaventure, Pragyan	2012	till date
Faculty Advisor	NITTFEST	2012	2014
Member	M. Tech. Syllabus Committee	2012	till date
Member	NBA Document Committee	2009, 2017	
Member	Ph. D Admission Committee	2006	2014
Member	NIMCET Admission Committee	2006	till date
Member	M. Sc. (OR & CA) Admission Committee	2006	till date
Member	Board of Studies for MCA and M.Sc. (OR & CA)	2006	till date
Member	Performance Analysis Committee	2006	-
In-charge	Department Library	2006	2007
Chairman	Performance Analysis Committee	2013, 2015, 2017 - 2022	

**Academic/Administrative Responsibilities outside the University**

<b>Position</b>	<b>Institution</b>	<b>From</b>	<b>To</b>
Judge	Toycathorn - Innovation Cell, Ministry of Education	2021	2022
BoS member for Data Science course	Bishop Heber College, Trichy	2020	2021
Doctoral Committee	Sastra University	2020	2021

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Member			
Doctoral Committee Member	SRM Institute of Science & Technology	2020	2021
External Examiner	Sastra University	2019	2021
Reviewer	International Journals	2015	Till date
External Examiner	SRM Institute of Science & Technology	2021	2022

### Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2002	Third Rank in MCA	Bharathidasan University
2001	National Eligibility Test for Lectureship (NET)	UGC
1994	National Scholarship Scheme Merit Certificate	MHRD
2021	Senior Member	IEEE
2019	Best paper in IEEE 3rd Intl. Conf. ISMAC	Scad College of Technology, Coimbatore
2021	Best Performance in Teaching, Research and Institutional Development	NIT, Trichy
2021	Professional Member	ACM

### Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
June 2015	Young Faculty Research Fellowship	MEITY	August 2015	August 2020

### Details of Academic Work

#### (i) Curriculum Development

- Subjects handled with available feedback scores

Introduction to Computer Programming	Excellent
Computer Organisation and Architecture	9.15
Organisational Behaviour	9.2
CASE Tools Lab	8.7
- Updated the syllabus each year to include the latest research and Technology.
- Used Simulators and Power point presentations and Demonstrations of concepts by using open source software and videos, Mini Projects and exercises for course reinforcement.
- Moodle e-learning System used for course teaching, learning and evaluation.
- Used Flipped classroom methodology for all course teaching.

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### (ii) Courses taught at Postgraduate and Undergraduate levels

Undergraduate:

- Python Programming

Postgraduate:

- Information Security
- Deep Learning
- Internet of Things
- Cyber Security and Information Assurance

Laboratory:

- FOSS Lab
- Information Security Lab
  - Established an Information Processing and Security Lab in Computer Applications Department.
  - Developed lab exercise for Information security lab and CASE Tools lab introduced for the first time. Used IBM great mind challenge problems for case tools lab and Google Code Lab exercise for Information security lab.
  - Established the IoT Lab for elective course.
  - Used Open source simulators for learning about information security in the Lab.

### (iii) Projects guided at Postgraduate level

Name	Project Title	Month	Year of Submission	Course
Joseph Mathew & Byju N B	Arduino based audio transmission using LiFi	December	2019	M.Sc.
Krishna Kumar	Online opinion voting system	December	2019	MCA
Shubham Vishwakarma	Sales Prediction	December	2019	MCA
Kapil Jaiswal	Identity Blockchain	December	2019	MCA
Tonmoy Golder	Mood Swinger	December	2019	M. Sc.
Tanmay Yadav	Movies Recommendation	December	2019	MCA
Shaikha Khan	Chatbot using Deep Learning	December	2019	MCA
Sanjeev Keshri	Web Scraping using Scrapy and Deep Learning	December	2019	MCA
Meghna Singh	Implementation of Deep Learning on Multimedia Dataset	December	2019	M.Tech.
Himanshu Shukla	Distracted Driver Distraction Using Deep Learning Algorithm	December	2019	M.Tech.
Jagdev Rajpoot	Object Detection using	June	2019	MCA

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	VGGNet			
Mohit Mandloi	Conference and Workshop Scheduling	June	2019	MCA
Soundhar G	Digital Twin – A Chatbot	June	2019	MCA
Swathika E	Image Encryption and Decryption using Chaotic System	June	2019	MCA
Ritoo Lodhi	Enhance POS (Point of Sales)	June	2019	MCA
Joseph Mathew	Smart Pill Box for Medicine Reminder and Monitoring System	December	2019	MSc
Uma S	Arduino Based Hotel/Restaurant Management System	December	2019	RS, CA
R Monika	Development of IoT Based Rebar Image Scanner using Magnetic Sensor	December	2019	RS, ECE
P Vaishnavi	Intelligent Traffic Management System	December	2019	MSc
Pradeep Kumar K	IoT Based Fire Alerting	December	2019	MSc
Arijit Biswas	Distance Transmitter in Morse Code	December	2019	MSc
Anjali C S	Morse Code Translator using Arduino	December	2019	MSc
G Nagaraj Pandiyan	Raspberry PI Botnet Detection using ML	December	2019	MSc

(iv) Other contribution(s)

- Electrical complaint registration software developed for Estate maintenance department. (<http://emc.nitt.edu/login.php>)
- Software for data entry and analysis of transportation engineering problem survey for Civil Department.

#### 14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Indexing Multimedia Data	DIETY (Visveswaraya Ph.D. Scheme for electronics and IT)	2015	2020	Completed
National Cyber Coordination Center Project for Cyber Threat Intelligence Generation	CDAC Mohali	2018	2021	Completed
Natonal Cyber Coordination Center	Meity	2021	2023	Ongoing



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- Sensor Deployment				
AI, ML   Attribute Aware Recommender Systems Implications of User Demographics, Context and Item Characteristics	Samsung Research Institute Bangalore	13.01.2021	13.08.2021	Completed

### Consultancy

Sl. No	Name of Organization	Year	Amount (Rs.)
1.	BHEL	2013	10,891/-
2.	IDRBT	2017-2021	20,00,000/-
3.	CDAC Trivandrum	2019-2021	20,00,000/-
4.	CDAC Trivandrum	2021-2023	50,00,000/-

### Patent

Name of the Invention	Inventor / Co-Inventor	Patent Number and Date
A multi-directional display device to enable active user screen time and method thereof	Inventor	202141002355, January 19, 2021 (Published)
Multimodal aspect-based emotion detection wearable device	Inventor	Submitted for provisional Filing

### 15. Number of Ph.Ds guided/ongoing

Name of the PhD Scholar	Title of PhD Thesis	Role	Year of Award
T. Ravi Chandran	Data Clustering and Classification Using Social Spider Optimization	Co-Supervisor	2020
K. Nirmal	Anti-Phishing methodology to enhance online security	Supervisor	2020
N. Karthika	Multi-variate data indexing for retrieval, clustering and classification	Supervisor	2021
Muraleedharan. N	Slow network attacks detection using flow data	Supervisor	2022
D. Santhadevi	Edge Security	Supervisor	
Srinadh Swamy Majeti	Mobile Security	Supervisor	
K. Nimmi	Mobile Security	Supervisor	
J. Sheela	Text Summarization using Fuzzy Rule	Supervisor	2021

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	and Deep Learning		
Sanjeev Kumar	Malware Detection	Supervisor	
Purshotam Rao	Student Distraction Detection	Supervisor	
K. Muthurekha	Machine Learning on CP	Co- Supervisor	
Tirukkoyalluri Divakar	Self-Driving Car	Co- Supervisor	

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
May 2022	TransfiNITTe 22	Local	Judge	NIT Trichy	NIT Trichy
25 <sup>th</sup> Feb 2022	5 day faculty development program on Learning, Research and Publishing	Local	Resource Person	Soka Ikeda College of Arts and Science	Chennai
18.01.2021	ATAL AICTE Sponsored FDP on Artificial Intelligence	National	Resource Person	Sree Buddha College of Engineering	Kerala
8.6.2021	National Webinar on Recent Trends in IoT	Local	Resource Person	Rabiammal Ahamed Maideen College for Women	Tiruvarur
29.4.2021	3T - Top Tech Trends - Internet of Things	National	Session Speaker	Rane Polytechnic Technical Campus	Trichy
21.9.2021	International Webinar on Recent Trends in Data Science	International	Session Speaker	St. Josephs College	Trichy
4.6.2021	Recent Trends in IoT	Local	Resource Person	PSNA College	Dindugal
8.6.2020	Virtual FDP on Emerging Applications in Deep Learning	National	Session Speaker	Rajarajeswari College of Engineering	Bangalore
9.9.2020	ATAL FDP in Application	National	Resource Person	NIT Trichy	NIT Trichy

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	Security and Open source Tools for Cyber Security				
5.7.2021	Aicte Atal Online Elementary FDP in Recent Trends in Cyber Security Domain	National	Resource Person	Manonmaniam Sundaranar University	Tamil Nadu
18.11.2020	AICTE Sponsored Six Day Online Short Term Training Programme (STTP3)	National	Resource Person	Saranathan College of Engineering	Trichy
27 <sup>th</sup> January 2020	UGC Sponsored Seminar on Cyber Feast	Local	Session Speaker	SRC College, Trichy	SRC College, Trichy
30 <sup>th</sup> August 2019	Problem Solving and Python Programming	Local	Speaker	MAM College of Engineering Sirugunur	Trichy
14 <sup>th</sup> , 14 <sup>th</sup> December 2019	9 <sup>th</sup> IEEE International Advance Computing Conference IACC 2019	International Conference	Session chair	MAM College of Engineering Sirugunur	Trichy
11 <sup>th</sup> July 2018	Inauguration of First years Program	Local	Chief Guest address	Holy Cross College	Holy Cross College
27 <sup>th</sup> February 2018	CHITS, State level Technical Symposium	State	Chief Guest address	Department of Computer Science	Bishop Heber College, Trichy
24, 25 January 2018	Two day National Conference on Transforming Technology	National	Session Speaker	Srimad Andavan Arts and Science College	Srimad Andavan Arts and Science College
6-9 <sup>th</sup> November 2017	AICET Sponsored FDP on IOT	National	Session Speaker	MAM College of Engineering, Sirugunur	MAM College of Engineering, Sirugunur
25 and 26 September 2017	Multimedia Information Retrieval	National	Session Speaker	MAM College of Engineering, Sirugunur	MAM College of Engineering,

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	Issues and tools				Sirugunur
31.08.2017 and 01.09 2017	MCA and MSc Orientation Program	Local	Speaker	NIT, Trichy	NIT, Trichy
27th – 29 <sup>th</sup> July 2015	MCA and MSc Orientation Program	Local	Speaker	NIT, Trichy	NIT, Trichy
05.08.2016	Orientation course of I year B. Tech	Local	Speaker	NIT, Trichy	NIT, Trichy
13-15 June 2014	International Mechanical Engineering Congress	International	Organizing committee member	NIT, Trichy	NIT, Trichy
August 30 and 31, 2014	Version, (Two day National MCA Symposium) paper presentation	National	Judge	Department of CA	NIT, Trichy
March 17 and 18, 2013	Infotreck 2012, UI Design, Annual ACM Student chapter	Local	Judge	Department of CA	NIT, Trichy
8 <sup>th</sup> March, 2013	Women's day celebrations of Sadhana of Bishop Heber College	Local	Chief Guest address	Bishop Heber College	BHC
9 <sup>th</sup> and 10 <sup>th</sup> of May 2013	Two day workshop on Perspectives on Curriculum	Local	Participant	NITT	NITT
05.08.2013	Programming principles	Local	Lecture	NIT Trichy	NIT Trichy
13 and 14 <sup>th</sup> December 2012	Paper Presentation Session of INCOSET 2012	Local	Session Chair	JJCET, Trichy	JJCET, Trichy
December. 6 <sup>th</sup> and 7 <sup>th</sup> 2012	FACT 2012	National	Technical committee member	Department of Mathematics and CA	NITT
10 <sup>th</sup> and 11 <sup>th</sup> November, 2012	Two day ISTE workshop on Akash for education conducted by	National	Participant	IIT Bombay	NITT

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	IIT, Bombay				
13.03.2010	Paper Presentation event, Infotreck 2010, Annual ACM Student chapter	Local	Judge	Department of CA	NIT, Trichy
13.03.2010	Paper Presentation event Infotreck 2010 Annual ACM Student chapter intra collegiate technical event	Local	Judge	Department of CA	NIT, Trichy
Feb. 25,26, 2010	National conference on Advanced pattern mining and Multimedia Computing	National	Organizing committee Member	Department of CA	NIT, Trichy
26.03.10 to 27.03.10	BAIP 2010	International	Session Chair	Trivandrum	Trivandrum
August 28 and 29, 2010	Version (Two day National MCA Symposium) paper presentation	Local	Judge	Department of CA	NIT, Trichy
14th to 15th March, 2008	2 day workshop on Data Analytics and Data Mining	National	Participant	Department of Maths and Department of CA	NIT, Trichy
6th and 7th October 2008	3 day Training Programme on Thesis Preparation using LaTeX Software	Local	Participant	Department of CSE	NIT, Trichy
7th, 8th and 9th November, 2008	3 day workshop on Digital Image and Video Processing	National	Participant	Department of Maths and Department of CA	NIT, Trichy
8,9,10 <sup>th</sup> August 2008	3 day workshop on Algorithms	National	Participant	Department of Maths and Department of CA	NIT, Trichy

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14th August, 2008	Workshop on Mobile and Pervasive Computing	National	Participant	Department of CA	NIT, Trichy
13th to 17th March, 2007	Short term course under QIP for Engineering College Teachers on Recent trends in Processor Architecture	Local	Participant	Department of CSE	NIT Trichy
December 22nd, 2006	Seminar on Research Directions in Information Technology and Applications	National	Participant	Department of Management Studies	NIT Trichy
9th to 11 March, 2006	TANSCHÉ and UGC Sponsored 3 day Workshop on Curriculum development and Evaluation	Regional	Participant	Academic Staff College, Bharathidasan University	BHC, Trichy
27.06.2003 to 29.06.2003	Workshop on Christian Studies Sponsored by AIACHE	Local	Participant	BHC, Trichy	BHC, Trichy

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Essence of Emergency Response Support System	National	6 <sup>th</sup> to 10 <sup>th</sup> April 2022	Coordinator	NIT Trichy
Blockchain and Smart Contract Technology	National	25-29 June 2021	Coordinator	NIT Trichy
Effective Online Teaching Learning Strategies Batch - 1	National	26th to 31st May 2020	Coordinator	NIT Trichy
Effective Online Teaching Learning Strategies Batch - 2	National	22nd to 27th June 2020	Coordinator	NIT Trichy
Effective Online Teaching	National	03rd to 8th	Coordinator	NIT Trichy

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Learning Strategies Batch - 3		August 2020		
OPTIMA	National	19th , 20th October 2019	Faculty Advisor	NIT, Trichy
Cyber Security	National	1st to 5th July 2019	Coordinator	NIT, Trichy
TechnoFania	National	23rd and 24th March 2019	Faculty Advisor	NIT, Trichy
Recent Trends in Computer Applications	National Conference	26th ,27th April 2019	Secretary	NIT Trichy
IoT and Security	National	3rd to 7th December 2018	Coordinator	NIT Trichy
OPTIMA	National	27th , 28th October 2018	Faculty Advisor	NIT, Trichy
TechnoFania	National	11th March 2018	Faculty Advisor	NIT, Trichy
OPTIMA	National	13th October 2017	Faculty Advisor	NIT, Trichy
OSOC	Local	29th and 30th September 2017	Faculty Advisor	NIT, Trichy
Master your Moodle	Local	15th and 16th March 2017	Coordinator	NIT, Trichy
Internet Protocol standards with CDAC	Regional	29.07.2016	Coordinator	NIT, Trichy
Application of ICT Tools for Pedagogy development to technical education Teachers	National	4th to 8th April 2016	Coordinator	NIT, Trichy
Leadership Training	Local	11.03.2016	Coordinator	NIT, Trichy
Visual Sensor Networks	National	November 2015	Coordinator	NIT, Trichy
Tools and Techniques for Information Processing Research	Local	11th and 12th September 2015	Coordinator	NIT, Trichy
IBM Cloud workshop	Local	9.11.2013	Coordinator	NIT, Trichy
OSOC Workshop	Local	19.04.2013	Faculty Advisor	NIT, Trichy
OSOC Workshop	Local	17.10.2013	Faculty Advisor	NIT, Trichy
OSOC Workshop	Local	19.10.2013	Faculty Advisor	NIT, Trichy

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OSOC Workshop	Local	22.10.2013	Faculty Advisor	NIT, Trichy
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### 18. Invited Talks delivered

Topic	Date	Inviting Organization
Edge Security	05-07-2021	NIT Trichy
Recent trends in IoT	7.6.21	Rabiammal Ahamed Maideen College for women thiruvapur,
Data Science Using python	February 07,2022	Rajiv Gandhi National Institute of Youth Development
Python Programming	29.08.2019	MAM College of Engineering, Sirugunur
Chief Guest Address	27th February 2018	Bishop Heber College
Disruptive Technologies	24th January 2018	Srimad Andavan Arts and Science College
IoT and Security	8th November 2017	MAM College of Engineering, Sirugunur
Multimedia Information Retrieval Issues and tools	25th September 2017	MAM College of Engineering, Sirugunur
Indexing Textual Data	25.05.2009 to 6.06.2009	FDP on "Data Warehousing and Data Mining conducted by the Department of Computer Applications, NIT, Trichy -15
Motivation for Fresher's	July 9, 2010	Bishop Heber College
C Programming	22.08.13	Orientation Programme of Bridge Course, NIT, Trichy
Motivation to Fresher's	7.8.2016	NIT, Trichy
Academic Ethics	07.08.2014 ( every year )	NIT, Trichy
Lectures on Programming Languages	7.12.12 and 11.12.12	Finishing school students in the UKIERI Projects on Preparing Graduates for Business Life, in NIT, Trichy

### 19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date
Life Member	ISC	L24000
Senior Member	IEEE	91092990
Professional Member	ACM	7800754
Life Member	CSI	01153035
Life Member	ISTE	LM95869
Life Member	IAENG	109374
Life Member	IACSIT	80337721
Member	IBM Academic Initiative	
Member	Open Source Initiative	

### 20. Academic Foreign Visits



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Country	Duration of Visit	Programme
Malaysia	05.12.2010 to 07.12.2010	Paper presentation for Conference

21. Publications

Scopus Author ID: 35786218500

Web of Science ResearcherID: Q-6316-2019

ORCID ID: 0000-0001-7030-9634

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	doi	Impact Factor of the Journal
Nimmi, K., Janet, B., Selvan, A.K., Sivak umaran, N.	Pre-trained ensemble model for identification of emotion during COVID-19 based on emergency response support system dataset	Applied Soft Computing	122,	108842	2022,	<a href="https://doi.org/10.1016/j.asoc.2022.108842">https://doi.org/10.1016/j.asoc.2022.108842</a>	
Nirmal, K., Janet, B., Kumar, R.	Enhancing online security using selective DOM approach to counter phishing attacks	Concurrency and Computation: Practice and Experience	Volume 34, Issue 7	15320626		10.1002/cpe.5525	
Kumar, S., Janet, B.	DTMIC: Deep transfer learning for malware image classification	Journal of Information Security and Applications	Volume 64,		February 2022	<a href="https://doi.org/10.1016/j.jisa.2021.103063">https://doi.org/10.1016/j.jisa.2021.103063</a>	4.96
SanjeevKumarB.Janet	Distinguishing malicious programs based on visualization	Computer Networks	Volume 201,		24 December 2021	<a href="https://doi.org/10.1016/j.comnet.2021.108595">https://doi.org/10.1016/j.comnet.2021.108595</a>	

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	and hybrid learning algorithms						
Majeti, S.S., Janet, B., Dhavale, N.P	Security capability maturity model for mobile applications	International journal of modern agriculture			2020	WOS:000618861900093	
Muraleedharan, N., Janet, B.	Scaffy: A slow denial-of-service attack classification model using flow data	International Journal of Information Security and Privacy,	15(3),	pp. 106–128	2021,		
Santhadevi D, Janet B	IoT Malware Detection using Machine Learning Ensemble Algorithms	International Journal of Advance Science and Technology	Vol. 29, No. 10	pp. 8006-8016	2020		
Muraleedharan, N., Janet, B.	A deep learning based HTTP slow DoS classification approach using flow data	ICT Express	7(2)	210–214	2021	10.4018/IJISP.2021070107	
N. Muraleedharan and B. Janet	Flow-based machine learning approach for slow HTTP distributed denial of service attack classification	International Journal of Computational Science and Engineering	Vol. 24, No. 2	pp 147-161	2021	<a href="https://www.inderscienceonline.com/doi/abs/10.1504/IJCSE.2021.115101">https://www.inderscienceonline.com/doi/abs/10.1504/IJCSE.2021.115101</a>	
Karthika, N., Janet, B.	Deep convolutional network for urbansound classification	Sadhana - Academy Proceedings in Engineering Sciences,	45(1)	210	2020		
Sheela, J., Janet, B.	An abstractive summary generation system for customer	Journal of Ambient Intelligence and Humanized Computing	12(7)	pp. 7363–7373	2021	<a href="https://doi.org/10.1007/s12652-022-04259-0">https://doi.org/10.1007/s12652-022-04259-0</a>	

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	reviews and news article using deep learning						
Nirmal, K., Janet, B., Kumar, R.	Analyzing and eliminating phishing threats in IoT, network and other Web applications using iterative intersection	Peer-to-Peer Networking and Applications				WoS	
T. Ravi Chandran, A. V. Reddy, and B. Janet	A novel variant of social spider optimization using enhanced mating and single cluster representation for data clustering	Peerj Computer Science			June2019	ESCI, SCOPUS	
R. Joshua Arul Kumar, S. Titus, B. Janet,	A novel and efficient classifier using spiking neural network	The Journal of Supercomputing		1-16	May 2019	SCI(1.53)	
T. Ravi Chandra, A. V. Reddy, and B. Janet	A Novel Data Classifier using Social Spider Optimization	International Journal of Innovative Technology and Exploring Engineering			June 2019	SCOPUS	
N.Karthika and B.Janet	Feature Pair index graph for clustering	Journal of Intelligent Systems			January 2019	SCI (0.17)	
T. Ravi Chandra, A. V. Reddy, and B. Janet	A Novel Bio-Inspired Algorithm Based on Social Spiders for Improving Performance and Efficiency of Data Clustering	Journal of Intelligent Systems			2018	SCI (0.17)	
T. Ravi	Text	International	12 (6)	995-	2017	SCOPUS	

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Chandra, A. V. Reddy, and B. Janet	Clustering quality improvement using a hybrid Social Spider Optimization	Journal of Applied Engineering Research		1008			
Janet B. and A.V. Reddy	Index Model for Image Retrieval using SIFT Distortion	Intelligent Information and Database Systems	6 (3)	289-306	2012	SCOPUS	
Janet B., A.V. Reddy and S. Domnic	Locally Global Codebook for Image Retrieval and Clustering using Vector Quantization	ICTACT Journal On Image And Video Processing	2 (4)	397-404	2012	ICV - 5.09	
Janet B. and A.V. Reddy	Cube Index: A Text Index Model for Retrieval and Mining	IJCA	9 (20)	192-330	2010	<a href="http://www.ijcaonline.org/archives/number9/">http://www.ijcaonline.org/archives/number9/</a>	
Janet B. and A.V. Reddy	Wordpair Index: A Nextword Index Structure for Phrase Retrieval	Special Issue of IJRTE	3 (2)	147-149	2010	URI: <a href="http://www.searchdl.org/index.php/journalclient/viewthispaper/6/6/15/131">http://www.searchdl.org/index.php/journalclient/viewthispaper/6/6/15/131</a>	
Janet B. and A.V. Reddy	Cube Index for Text and Image Information Retrieval and Mining	Advances in Computing	1(1)	1-7	2011	DOI: 10.5923/j.ac.20110101.01	
Janet B. and A.V. Reddy	A Study on the Effect of Codebook and Codevector Size on Image Retrieval Using Vector Quantization	Computer Science and Engineering	1(1)	1-7	2011	DOI: 10.5923/j.computer.20110101.01	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year	doi
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Purushotta ma Rao, K., Janet, B.	Teacher Assistance System to Detect Distracted Students in Online Classroom Environment	Proceedings - 4th International Conference on Smart Systems and Inventive Technology, ICSSIT 2022	Pages 1743 - 1749	4th International Conference on Smart Systems and Inventive Technology, ICSSIT 2022	Tirunelveli	2022	10.1109/ICSSIT53264.2022.9716406
Janet, B., Nikam, A., Kumar R, J.A.	Real Time Malicious URL Detection on twitch using Machine Learning	Proceedings of the International Conference on Electronics and Renewable Systems, ICEARS 2022	Pages 1185 - 1189	Proceedings of the International Conference on Electronics and Renewable Systems, ICEARS 2022	Tuticorin	2022	10.1109/ICEARS53579.2022.9751862
Janet, B., Kumar R., J.A., Bandopadhyay, S., Titus, S.	Smart Streetlight with Intelligent Sound Detection System	Proceedings of the International Conference on Electronics and Renewable Systems, ICEARS 2022	Pages 1841 - 1845	Proceedings of the International Conference on Electronics and Renewable Systems, ICEARS 2022	Tuticorin	2022	10.1109/ICEARS53579.2022.9752171
Janet B; Joshua Arul Kumar R; Anisha Mitra; Titus S	Education Data Analysis using Ensemble Models	<i>4th International Conference on Smart Systems and Inventive Technology (ICSSIT)</i>	pp. 1612 - 1617	<i>4th International Conference on Smart Systems and Inventive Technology (ICSSIT)</i>	Tamil Nadu	2022	10.1109/ICSSIT53264.2022.9716453.
Janet, B., Ghosh, A., Kumar R, J.A.	End-to-End Encryption and Prediction of Medical Insurance Cost	2022 6th International Conference on Trends in Electronics and Informatics, ICOEI 2022 - Proceedings	Pages 846 - 850	2022 6th International Conference on Trends in Electronics and Informatics, ICOEI	Tirunelveli	2022	10.1109/ICOEI5356.2022.9777238
Elias, E.P., Santhanavijayan, A., Janet, B., Arul, K.R.J.	OTP System Based on ECC Key Exchange	2022 International Conference on Communication, Computing and Internet of Things, IC3IoT 2022 -	1792 - 56	2022 International Conference on Communication, Computing and Internet of Things, IC3IoT 2022	Chennai	2022	10.1109/IC3IoT53935.2022.9768019

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		Proceedings					
Selvan, A.K., Janet, B., Bhattacharjee, R., Sivakumaran, N.	Opinion mining based crime classification model for emergency data	Proceedings of the 3rd International Conference on Intelligent Communication Technologies and Virtual Mobile Networks, ICICV 2021	Pages 1544 - 1547	3rd International Conference on Intelligent Communication Technologies and Virtual Mobile Networks, ICICV 2021	Tirunelveli	2021	10.1109/ICICV50876.2021.9388390
Abdul Jamsheed V. Janet B. Reddy, U. Srinivasulu	Real time detection of driver distraction using CNN	Proceedings of the 3rd International Conference on Smart Systems and Inventive Technology	Pages 185 - 191	3rd International Conference on Smart Systems and Inventive Technology, ICSSIT 2020	Tirunelveli	August 2020	10.1109/ICSSIT48917.2020.9214233
Kalaiselvan, Nimmi, Janet, Sivakumaran	Comparison of SPAM detection using machine learning and deep learning techniques	International Conference on Instrumentation and Control Engineering 2019		Trichy, India	2019		
Swathika Elango, Karthika Natarajan and Janet Barnabas	Image Encryption and Decryption using Chaotic System	9 <sup>th</sup> IEEE International Advance Computing Conference (IACC 2019)		Trichy, India	2019		
Jitendra Kumar, Balaji Rajendran, A. Santhanavijayan, Bindhumadhava BS	Phishing Website Classification and Detection Using Machine Learning	International Conference on computer communication and Informatics 2019		Coimbatore, India	2019		
R. Monika, B. Janet,	Sentiment Analysis of US Airlines Tweets using	9 <sup>th</sup> IEEE International Advance Computing Conference		Trichy, India	2019		

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	LSTM/RN N	(IACC 2019)					
Rohit Kumar, Janet Barnabas Santhadevi ,	Outcome Classificati on in Cricket Using Deep Learning	8th IEEE international conference on cloud computing in emerging markets		Bangalore, India	2019		
Sanjeev Kumar, B. Janet	Multiplatfo rm Honeypot for generation of cyber threat intelligence	9 <sup>th</sup> IEEE International Advance Computing Conference (IACC 2019)		Trichy, India	2019		
Yahmozhi T., B. Janet	Natural language processing and Machine learning based phishing website detection system	3 <sup>rd</sup> IEEE International Conference on IoT in Social, Mobile, Analytics and Cloud		Coimbatore, India	2019		
Srinadh Swamy Majeti, Arjun Basu, Narendra P Dhavale and Barnabas Janet,	Automated Extraction and Analysis of Usability attributes from PlayStore Reviews	IndiaHCI 2019		Hyderabad, India	2019		
Joshua Arul Kumar Ranjan, Titus Sigamani and Janet Barnabas	A Bio- plausible Network Model for Classificati on of images	AISGSC 2019		Coimbatore India	2019		
Joshua Arul Kumar Ranjan, Titus Sigamani	A Novel and Efficient Classifier using Spiking	AICV'18		Chennai india	2018		

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and Janet B	Neural Network						
Sanjeev Kumar, B. Janet	Automated Cyber Threat Intelligence Generation from Honeypot Data	International Conference on Inventive Communication and Computational Technologies (Springer, SCOPUS Indexed)		Namakkal,India	2019		
Nimmi K. , B. Janet	An analysis of the balance between security and utility of mobile applications	IEEE International Conference on Circuits and Systems in Digital Enterprise Technology (IEEE explore)		Kerala	2019		
Muraleedharan N., and B. Janet	A flow based anomaly detection system for slow DDoS attack on HTTP	International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (Springer)		NIT Kurukshetra	2019		
Santhadevi , B. Janet	Security Challenges in Computing System, Communication Technology and protocols in IoT system	IEEE-International Conference on Circuits and Systems in Digital Enterprise Technology (IEEE explore)		SAINTGITS, Kerala	2018		
Srinadh Swamy Majeti, B. Janet, N. P. Dhavale, Faheem Habib	Study and Ranking of Vulnerabilities in the Indian Mobile Banking Applications using	International Conference on Computational Intelligence and Informatics (Springer)		JNTU Hyderabad	2018		



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	Static Analysis and Bayes Classification						
N. Karthika B. Janet	Clustering Performance Analysis	International Conference on Advanced Computing and Intelligent Engineering (Springer)		Bhubaneswar, India	2018		
T. Ravi Chandran, A.V. Reddy, B.Janet,	An effective implementation of Social Spider Optimization for text document clustering using single cluster approach	International Conference on Inventive Communication (IEEE explore)	508-511	Chennai	2018		
K Nirmal Dr. B. Janet Dr. R. Kumar	It's more than stealing cookies – exploitability of XSS	International Conference on Inventive Research in Computing Applications (IEEE Explore)	490-493	Madurai, India	2018		
K Nirmal Dr. B. Janet Dr. R. Kumar	Web Application Vulnerabilities – The Hacker's Treasure	International Conference on Inventive Research in Computing Applications (IEEE explore)	58 - 62	Coimbatore, India	2018		
T. Ravi Chandran, A. V. Reddy, and B. Janet	An effective implementation of Social Spider Optimization for text document clustering	ICICCT 2018 (IEEE explore)	508-511	Coimbatore, India.	2018		

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	using single cluster approach						
T. Ravi Chandran, A. V. Reddy, and B. Janet	Performance comparison of social spider optimization for data clustering with other clustering methods	Proceedings of the 2nd International Conference on Inventive computation technologies, (IEEE explore)	1119 - 1125	Coimbatore, India	2018		
N. Karthika, B. Janet	Word pair Index Structure for Information Retrieval using terrier 3.5	International Conference on Computational Intelligence in Data Science (IEEE explore)	1-6	Chennai	2017		
Muraleedharan N and B. Janet	Behaviour Analysis of HTTP based Slow Denial of Service Attack	International Conference on Wireless Communications Signal Processing and Networking (IEEE explore)	1851 - 1856	Kalavakkam, Tamil Nadu	2017		
T Ravi Chandran, AV Reddy, B Janet	A social spider optimization approach for clustering text documents	International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (IEEE explore)	22-26	Chennai, India	2016		
K Nirmal, B Janet, R Kumar	Phishing-the threat that still exists	Computing and Communications Technologies (ICCCT) (IEEE explore)	139-143	Chennai, India	2015		
B. Janet, R. Roslin Mary	Proposal of a new Patient specific	Emerging Research In Computing, Information,	243-248	Bangalore, India	2014		

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	Open CAD Architecture for Thoracic Aortic Aneurysm (TAA)	Communication And Applications (Elsevier)					
B. Janet, R. Roslin Mary	A Novel Computer Aided Diagnosis System For Thoracic Aortic Aneurysm	Eighth International Conference On Image And Signal Processing (Elsevier)	331-336	Bangalore, India	2014		
Janet B., Reddy A.V	Cube Index for Unstructured Text Analysis and Mining	Proceedings of ICCCS(IEEE Explore)	397-402	Odisha, India	2011		
Janet B., Reddy A.V., Domnic S	Vector Quantization Based Index Cube Model for Image Retrieval	Proc. of Fourth Pacific-Rim Symposium on Image and Video Technology (IEEE explore)	27-32	Singapore,	2010		
Janet B., Reddy A.V.,	Image Index Model for Retrieval using Hadusdorff Distance	Proceedings of Int. Conf. on Computer Applications and Industrial Electronics (ICCAIE) (ACM Digital library)	85-89	Kuala Lumpur, Malaysia,	2010		
Janet B., Reddy A.V., Domnic S	Incremental Codebook Generation for Vector Quantization in Large Scale Content Based Image Retrieval	Proceedings of IEEE Int. Conf. CISR (IEEE explore)	223-226	Coimbatore, India	2010		
Karthika.N Janet.B Preyas	Cube index visualization using	Recent Trends in Computer Applications	114-117	2019	NIT, Trichy		

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pohre	TensorBoard						
Sanjeev Kumar, Mrs. B. Janet, Mrs. R. Eswari and Amit Kumar	Honeypot for Embedded and IoT Devices	National Conference on Recent Trends in Computer Applications	52-56	2019	NIT Trichy		
Hiran Nandy, B. Janet	A Comparative Analysis of Performances of Various Deep Learning Based Models on IMDB Dataset	Recent Trends in Computer Applications	1-4	2019	NIT, Trichy		
Guru Prasad R. Jadhav, B. Janet	Credit Card Fraud Detection Using Auto Encoder with Random Forest	Recent Trends in Computer Applications	40-43	2019	NIT, Trichy		
K Mutureka, U. Srinivasulu Reddy, B. Janet	Multiclass Classification for Question-Answering Forum using RNN	Recent Trends in Computer Applications	87-90	2019	NIT, Trichy		
Upendra Cheedella, B. Janet	Classification of Toxic Comments using Neural Networks - GRU's	Recent Trends in Computer Applications	91-94	2019	NIT, Trichy		
R. Swamy Sriharsha, B. Janet	Demand Prediction of Taxi Pickups in New York	Recent Trends in Computer Applications	95-97	2019	NIT, Trichy		
Phani Raj	Developing	Recent Trends	98-	2019	NIT		

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R., B. Janet, U. Srinivasulu Reddy	a Predictive Keyboard using Recurrent Neural Networks	in Computer Applications	101		,Trichy		
Anirban Pathak, B. Janet	Music Generation Using LSTM	Recent Trends in Computer Applications	102-105	2019	NIT,Trichy		
Sharfuddin Waseem Mohammed, B. Janet, M. Brindh	A Hybrid Neural Network Model for Intruder Detection using GRU and Modified Kernel of SVM	Recent Trends in Computer Applications	106-109	2019	NIT,Trichy		

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number	doi
Janet B., Reddy A.V., Domnic S.	An Image Index Model for Retrieval	Springer-Verlag Berlin Heidelberg	2010	978-3-642-12214-9	
N. Karthika, B. Janet	Performance Analysis of Information Retrieval Models on Word Pair Index Structure.	Springer, Singapore	2018	978-981-10-8568-0	
B. Janet and Pethuru Raj	Smart City Applications: The Smart Leverage of the Internet of Things (IoT) Paradigm	IGI Global	2019	ISSN: 2327-039X  EISSN: 2327-0403   ISBN13: 9781522590231	
Nimmi K, Janet B, Akshi Kumar,	Handbook of Research on Emerging Trends and Applications of Machine Learning	IGI Global	2019	10.4018/978-1-5225-9643-1.ch010	

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Varun G Menon					
B. Janet and Pethuru Raj	The human body: A digital twin of the cyber physical systems	Advances in Computers	2019	2-s2.0-85073984677	<a href="https://doi.org/10.1016/bs.adcom.2019.09.004">https://doi.org/10.1016/bs.adcom.2019.09.004</a>
N. Karthika, B. Janet	Clustering Performance Analysis	Advanced Computing and Intelligent Engineering, Springer Nature Singapore Pte Ltd.	2020	213334061	10.1007/978-981-15-1081-6_3
Majeti, S.S., Janet, B., Dhavale, N.P.	Analysis of Inappropriate Usage of Cryptographic Primitives in Indian Mobile Financial Applications	Lecture Notes on Data Engineering and Communications Technologies	2021	23674512	10.1007/978-981-15-8767-2_19
Sanjeev, K., Janet, B., Eswari, R.	Automated Cyber Threat Intelligence Generation From Honeypot Data	Lecture Notes in Networks and Systems, Springer	2020	23673370	10.1007/978-981-15-0146-3_56
Nimmi K.; Varun G. Menon; Janet B.; Akshi Kumar	Deep Learning for Next-Generation Inventive Wireless Networks	IGI Global	2020	9781522596431	10.4018/978-1-5225-9643-1.ch010
D. Santhadevi; B. Janet	EIDIMA: Edge-based Intrusion Detection of IoT Malware Attacks using Decision Tree-based Boosting Algorithms	Lecture Notes in Electrical Engineering ( LNEE, volume 853)	2022	978-981-16-9885-9	10.1007/978-981-16-9885-9_37

B. Janet

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