

# National Institute of Technology, Tiruchirappalli:

## Performa for CV of Faculty/ Staff Members

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### Curriculum Vitae



**Dr. R. Bala Krishnan** is currently working as an Assistant Professor in the Department of Computer Science and Engineering, National Institute of Technology, Tiruchirappalli. He received his B.E. degree (Computer Science and Engineering) from Anna University, Chennai in 2009 and M.E. degree (Computer Science and Engineering) from Anna University of Technology, Tirunelveli in 2011. He completed his Ph.D. degree from Homi Bhabha National Institute, Mumbai (Research Centre: Indira Gandhi Centre for Atomic Research, Kalpakkam) in 2018. His research interests include Text Steganography, Information Security, Network Security, Network Protocols, Android Applications, Machine Learning.

- 1. Name: Dr. R. Bala Krishnan
- 2. Designation: Assistant Professor
- 3. Office Address: Room No. CSE - 313, Second Floor,  
Department of Computer Science and  
Engineering (CSE),  
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Tamil Nadu
- 4. Telephone (Direct) (Optional):  
  - Telephone : Extn (Optional):
  - Mobile (Optional):
- 5. Email (Primary): balakrishnan@nitt.edu Email (Secondary) :
- 6. Field(s) of Specialization: Text Steganography, Information  
Security, Network Security, Network  
Protocols, Android Applications,  
Machine Learning.

#### 7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	National Institute of Technology (NIT), Tiruchirappalli	13.05.2020	Till Date
Assistant Professor	Indian Institute of Information	26.02.2020	11.05.2020

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	Technology (IIIT), Pune		
Research Scientist	Research Institute located at Hyderabad	01.07.2019	25.02.2020
Research Associate	Research Institute located at Hyderabad	28.03.2018	30.06.2019
Senior Research Fellow	Indira Gandhi Centre for Atomic Research, Kalpakkam	10.11.2014	27.03.2018
Junior Research Fellow	Indira Gandhi Centre for Atomic Research, Kalpakkam	13.07.2012	09.11.2014
Research Associate	Pondicherry University, Puducherry	28.11.2011	20.04.2012

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	Homi Bhabha National Institute, Mumbai ( <i>Research Centre: Indira Gandhi Centre for Atomic Research, Kalpakkam</i> )	2018	NA	Engineering Sciences
ME	Anna University of Technology, Tirunelveli	2011	First	Computer Science and Engineering
BE	Anna University, Chennai	2009	First	Computer Science and Engineering
HSc	State Board, Tamil Nadu	2005	First	Maths + Biology Stream

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Member	PhD, MS (By Research) and ICCR admissions scrutiny, CSE	Jun 2021	Till Date
Member	Anti Ragging Committee	Dec 2021	Till Date
Hostel Warden	Aquamarine A & B Hostels	Nov 2021	Till Date
Department Data Coordinator	CSE	Oct 2021	Till Date
Member	B.Tech. Project Review Committee, CSE	Aug 2020	May 2021
Member	National Supercomputing Mission	Jan 2021	Till Date

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### 10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
NIL			

### 11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2022	Certificate of Excellence	Samsung (Under PRISM Scheme)
2017	Best Paper Award	National Institute of Technology (NIT), Tiruchirappalli
2016	Lectureship	Tamil Nadu – SET
2015	JRF	CSIR – NET
2014	Senior Research Fellowship	Department of Atomic Energy (DAE)
2012	Junior Research Fellowship	Department of Atomic Energy (DAE)
2012, 2013, 2014	Lectureship	UGC – NET
2012, 2013, 2014, 2015	GATE	Indian Institute of Technology (IIT)
2007	First Prize for Paper Presentation	M. P. Nachimuthu M. Jaganathan Engineering College, Erode

### 12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2014	Senior Research Fellowship	Department of Atomic Energy	10.11.2014	12.07.2017
2012	Junior Research Fellowship	Department of Atomic Energy	13.07.2012	09.11.2014

### 13. Details of Academic Work

#### (i) Curriculum Development

- Curriculum Updation (2019 – 2020 & 2021 – 2022)

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

UG Courses	Theory	Principles of Programming Languages, Data Sciences, Deep Learning, Big Data Analytics, Big Data Mining, Database Management Systems, Machine Learning for Engineering Applications, Machine Learning Techniques and Practices
	Lab	Data Structures Lab, Digital Laboratory
PG Courses	NIL	

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(iii) Projects guided at Postgraduate level

Year	Project Title
2020 - 2021	Market Data Vendor Usage Tool
2021 - 2022	Study on Stock Market Price Prediction using Time Series Forecasting

(iv) Other contribution(s)

- Department NBA work
- Purchase initiator for Department equipments

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Study on Colluding Android Apps: Mitigating the Threat using Machine Learning Techniques	DST	28.01.2022	27.01.2024	Ongoing

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
NIL			

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
20 <sup>th</sup> to 24 <sup>th</sup> December, 2021	AICTE Training & Learning (ATAL) Faculty Development Programme on "Data Science"	National	Speaker	Indian Institute of Information Technology (IIIT), Pune	IIIT, Pune (Online)
22 <sup>nd</sup> to 26 <sup>th</sup> November,	AICTE Training &	National	Speaker	Central University of	CUTN, Thiruvapur

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2021	Learning (ATAL) Faculty Development Programme on "Artificial Intelligence in Teaching and Learning"			Tamil Nadu (CUTN), Thiruvarur	(Online)
16 <sup>th</sup> to 23 <sup>rd</sup> July, 2021	Faculty Development Programme on "Meta-Heuristics Techniques for Engineering Applications"	National	Speaker	National Institute of Technology (NIT), Warangal	NIT, Warangal (Online)
8 <sup>th</sup> to 12 <sup>th</sup> July, 2019	Hands-on Python Training for Statisticians (ISS Officers of MoSPI, GoI)	-	Speaker	Research Institute located at Hyderabad	Research Institute located at Hyderabad

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
Workshop on "Recent Trends in Cyber Security and Forensics (RTCSF)"	National	26 <sup>th</sup> to 30 <sup>th</sup> April, 2021	Coordinator	CSE, NIT, Tiruchirappalli (Online)
Workshop on "Machine Learning – Concepts and Applications (MLCA)"	National	19 <sup>th</sup> to 23 <sup>rd</sup> April, 2021	Coordinator	CSE, NIT, Tiruchirappalli (Online)

18. Invited Talks delivered

Topic	Date	Inviting Organization
Data Science Applications	22.12.2021	Indian Institute of Information Technology (IIIT), Pune

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Predictive Analytics in Education	23.11.2021	Central University of Tamil Nadu, Thiruvarur
1. Introduction to Artificial Neural Network 2. Application of Artificial Neural Network (Python/ Matlab )	20.07.2021	National Institute of Technology, Warangal
1. Data Preprocessing 2. Result Analysis	11.07.2019	Research Institute located at Hyderabad

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date
NIL		

20. Academic Foreign Visits

Country	Duration of Visit	Programme
NIL		

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year
R. Bala Krishnan, Prasanth Kumar Thandra, S. A. V. Satya Murty, P. Thiyagarajan	Font Attributes based Text Steganographic algorithm (FATS) for communicating images: A nuclear power plant perspective	Kerntechnik	82	98 - 111	2017
R. Bala Krishnan, Prasanth Kumar Thandra, S. A. V. Satya Murty	Text steganography: A novel character-level embedding algorithm using font attribute	Security and Communication Networks (Publisher: John Wiley & Sons)	9	6066 - 6079	2017

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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
R. Bala Krishnan, Prasanth Kumar Thandra, M. Sai Baba	Exploring the font attributes of Microsoft Word: A steganographic perspective	Intl. Conf. on Frontiers in Engineering, Applied Sciences and Technology (FEAST 2017)	-	-	National Institute of Technology, Thiruchirappalli	2017
R. Bala Krishnan, Prasanth Kumar Thandra, M. Sai Baba	An overview of text steganography	Fourth Intl. Conf. on Signal Processing, Communications and Networking (ICSCN 2017)	-	-	Madras Institute of Technology, Chennai	2017

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
NIL				