

## BIO DATA



Name : Mrs.S.Manjula  
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### 1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
B.E.	Computer Science & Engineering	National Engineering College, Kovilpatti	2014
M.E	Computer Science & Engineering (Anna University Rank Holder 48 <sup>th</sup> Rank)	Kamaraj College of Engineering and Technology, Virudhunagar	2016
Ph.D	Information and Communication Engineering	Anna University, Chennai	Pursuing

### 2. Professional/ Industry Experience : (in chronological order)

S.No	Designation	Institution/Organization	Period	
			From	To
1	Assistant Professor (SG)	Ramco Institute of Technology	01.01.2023	Till Date
2	Assistant Professor	Ramco Institute of Technology	19.06.2017	31.12.2022

### 3. Research Interest

Data Security, Artificial Intelligence, BlockChain

### 4. Publications

#### 4.1 JOURNAL PUBLICATIONS

1. P.Thiruramanathan, **S.Manjula**, N. Karthikeyan, R. Srinivasan, V. Sivakumar, "Photodegradation behaviour of sol-gel synthesized Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> for water pollution disinfection", Materials Today: Proceedings, June 2023, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2023.05.709> (Scopus)
2. **S.Manjula**, Valarmathi K, Swarna Sudha, "Data Division using Fuzzy Logic and Blockchain for data security in Cyber Space", Procedia Computer Science (Elsevier), pp.452-460, March 2022 (Scopus)

3. **S.Manjula**, P.Jothi Thilaga, “Data Partition Technique for secure data storage in cloud using Cryptographic technique”, International Journal of Engineering Technology and Management Science, Vol.2, pp.10-13 (2018).
4. **S.Manjula**, R.Swathiya, “Data Fragmentation for Secure Data Storage in Cloud using non cryptographic technique“ published in International Journal of Applied Engineering Research(IJAER), ISSN 0973-4562 Vol.10, pp.215-218 (2015).

#### 4.2 CONFERENCE PUBLICATIONS

1. P.Preetha, S.VishnuPriya, Dr.V.Anusuya, **S.Manjula**,” Self-Care Made Easy: The Health Care Application”, International Conference on Recent Trends in Science, Engineering and Management organized by Er.Perumal Manimekalai College of Engineering, Hosur on 28.04.2023
2. Rajalakshmi R U, Shakthi S, **S.Manjula**, “Fishsnap: A Deep Learning-Based Mobile App For Fish Species Recognition”, International Conference on Recent Trends in Science, Engineering and Management organized by Er.Perumal Manimekalai College of Engineering, Hosur on 28.04.2023
3. P.Thiruramanathan, N.Karthikeyan, R.Srinivasan, **S.Manjula**, “Artificial intelligence approaches for the preparation of ZnO nanoparticle for photocatalytic application”, International Conference on Sustainable Technology in Civil Engineering and Applied Sciences, Ramco Institute of Technology, Rajapalayam, 24.03.2023 – 25.03.2023.
4. K.Vignesh Saravanan, **S.Manjula**, Suriyakumar “Real Time Streaming Analysis to detect Fileless Malware attack with Logs by Cep using Flink Framework”, International Conference on Data Analytics, Smart Computing and Networks (IDASCN-2022)”, Mohan Babu University, Tirupati, 13<sup>th</sup> to 15<sup>th</sup> October 2022.
5. **S.Manjula**, K.Vignesh Saravanan, G.Umasudhan, “AI based Online Attendance Record System using Face Recognition and Random Queries”, in CSIR & TCS Sponsored International Conference on Recent Revolution in Mathematics, Computer Science and Applications (ICRRMCSA’22), 09<sup>th</sup> & 10<sup>th</sup> September 2022, pp.9-16 organized by the Departments of Mathematics, Computer Science and Computer Applications, Agurchand Manmull Jain College, Chennai.
6. **S.Manjula**, Dr.K.Valarmathi, “Deep Learning algorithm for Cyber Attacks”, in the International conference on Recent Innovations in Science and Engineering (ICRISE-2022) organized during 21st & 22nd February, 2022 at P.S.R.Engineering College, Sivakasi
7. **Mrs.S.Manjula**, Mr.R.Venkatesh and Ms.V.Dhanya, “Malware Identification Using Deep Learning” International Conference on Smart Engineering Technologies (IWCSET-2020) organized by RIT on 26 June, 2020.
8. **Mrs.S.Manjula**, Ms.R.Lavanyaa, “Software Fault Prediction Via Recurrent Neural Network (RNN)”, the International Conference on Smart Engineering Technologies (IWCSET-2020) organized by RIT on 27 June, 2020.
9. **S.Manjula**, P.Jothi Thilaga, “Sentiment Recognition from Facial Expression using Machine Learning”, 4th International Conference on Recent Trends in Engineering and Technology (ICRTET 2019) in St. Joseph’s Institute of Technology, Chennai (2019).
10. **S.Manjula**, M.Indra Devi, R.Swathiya, “Division of data in cloud environment for secure data storage”, IEEE Xplore Electronic ISBN: 978-1-4673-8437-7, DOI:10.1109/ICCTIDE.2016.7725365 (2016).

11. **S.Manjula**, M.Indra Devi, R.Swathiya, "A Survey on Sensor Cloud Meshing", 3rd International Conference on Advanced Computing and Communication Systems (ICACCS 2016), ISBN: CFP16YAF-POD 978-1-4673-9207-5 (2016)
12. **S.Manjula**, M.Indra Devi, R.Swathiya, "Data Partition Technique to Enhance Security in Cloud", Fifth National Conference on Computer Science Applications in Mepco Schlenk Engineering College, Sivakasi (2016).

**5. Short term Courses / Seminars /FDP/Workshop/Conference Attended:**

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Cyber Crime and Forensic Tools	P.S.R. Engineering College in collaboration with NITTTR, Chandigarh	08.05.2023	12.05.2023
2.	Emerging Trends in Intelligent Computing	VIT-AP University, Amaravati	14.03.2023	18.03.2023
3.	Artificial Intelligence	Microsoft, SAP & Tamil Nadu Skill Development Corporation under TechSaksham Program	13.03.2023	15.03.2023
4.	Basics of Python Programming	OpenWeaver	01.03.2023	-
5.	Full Stack Web Development	Microsoft, SAP & Tamil Nadu Skill Development Corporation under TechSaksham Program	27.02.2023	01.03.2023
6.	Journal Paper Writing	RIT	10.02.2023	-
7.	Cyber Security in Service Technologies of IoT: Research Perspective	Raghu Engineering College, Visakhapatnam, Andhra Pradesh	02.01.2023	06.01.2023
8.	Ideation and Proposal Writing Workshop	PALS and Rural Technology Action Group, IIT Madras	02.03.2022	03.03.2022
9.	AWS Summit India 2022	AWS	25.05.2022	26.05.2022
10.	Block chain Technology & its Applications	Electronics and ICT Academy, NIT Patna	21.02.2022	27.02.2022
11.	The Essentials of CCNA: Master the	NETCOM Learning	24.02.2022	-

	Latest Principles Program			
12.	Fundamentals of Cloud Computing, IBM Watson and Permissionless and Permissioned Blockchain Systems: Myths and Reality	PALS	09.02.2022	11.02.2022
13.	Artificial Intelligence	RIT-AI Cell in association with Edunet Foundation	24.01.2022	29.01.2022
14.	Anna University Sponsored CS8651 - Internet Programming	RIT	03.01.2022	08.01.2022
15.	IGBC's Student Chapter Annual Meet 2021	Indian Green Building Council	17.11.2021	-
16.	Webinar on "Mental Attitude"	RIT	12.10.2021	-
17.	One week AICTE ATAL FDP on "Cyber Security & Cryptography: Trends and Technologies"	Indian Institute of Information Technology, Design and Manufacturing, Kanchipuram	04.10.2021	08.10.2021
18.	5 Days Online Teachers Training on "Cyber Safety and Security"	Indian Teacher Education Community, Indore, Madhya Pradesh under Ministry of Electronics and Information Technology, Government of India	23.08.2021	27.08.2021
19.	One-week national workshop on "Data Analytics Using Python"	K.R.T. Arts, B.H. Commerce and A.M. Science (K.T.H.M.) College, Nashik, Maharashtra	09.08.2021	15.08.2021
20.	STTP on "MOODLE-Learning Management System"	NIT Warangal	04.01.2021	08.01.2021
21.	FDP on Universal Human Values for DEEKSHARAMBH (Student Induction Program)	NIT Patna	23.11.2020	27.11.2020

22.	ATAL Online FDP on Block Chain	University Institute of Engineering and Technology	31.08.2020	04.09.2020
23.	FDP on Data Structures	Velammal Engineering College, Chennai	25.05.2020	29.05.2020
24.	FDP Theory of Computation	Velammal Engineering College, Chennai	18.05.2020	22.05.2020
25.	FDP Neural Networks and CNN	NITTTR, Chandigarh	11.05.2020	15.05.2020
26.	FDP How to write effective case study	Atmiya University, Rajkot	02.05.2020	-
27.	FDP Linux Applications in Engineering Education	NITTTR, Chandigarh	27.04.2020	01.05.2020
28.	Industrial Training on Dotnet 4.6 Framework	Ramco Systems, Chennai	27.05.2019	31.05.2019
29.	4 <sup>th</sup> International Conference on Recent Trends in Engineering and Technology (ICRTET 2019)	St. Joseph's Institute of Technology, Chennai	04.05.2019	-
30.	One day FDP on AWS Cloud Masters 2019	AAA College of Engineering & Technology, Sivakasi	25.03.2019	-
31.	Faculty Development Programme on Machine Learning with Python A complete hands-on Approach	New Horizon College of Engineering, Bangalore	07.01.2019	11.01.2019
32.	Faculty Development Programme on Machine Learning Using Python Hands on training	Sri Ramakrishna Engineering College, Coimbatore	21.06.2018	23.06.2018
33.	Industrial Training on Dotnet	Ramco Systems, Chennai	18.06.2018	20.06.2018
34.	Anna University Approved Faculty Development Training Programme on IT6006- Data Analytics	Ramco Institute of Technology, Rajapalayam	06.06.2018	12.06.2018

35.	International Conference on Engineering and Advancement in Technology	Sri Krishna College of Technology, Coimbatore	22.03.2018	23.03.2018
36.	Two weeks FDP on Context – aware recommender system in cloud environment	Thiagarajar College of Engineering, Madurai	20.11.2017	03.12.2017
37.	Two weeks FDP on Human Values and Professional Ethics	Ramco Institute of Technology, Rajapalayam	30.10.2017	12.11.2017
38.	Two days faculty training program on Machine Learning using R tool	Kalasalingam University, Krishnankoil	17.03.2016	18.03.2016
39.	National Conference on Computer Science & Applications (NCCSA'16)	Mepco Schlenk Engineering College, Sivakasi	05.03.2016	-
40.	International conference on Advanced Computing and Communication Systems (ICACCS - 2016)	Sri Eswar College of Engineering, Coimbatore	22.01.2016	23.01.2016
41.	International conference on Computing Technology & Intelligent Data Engineering (ICCTIDE'16)	National Engineering College, Kovilpatti	07.01.2016	09.01.2016
42.	International conference on Modeling, Simulation and Control	Karpagam College of Engineering, Coimbatore	15.10.2015	16.10.2015

## 6. Short term Courses / Seminars /FDP/Workshop/Conference organized:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Boot Camp on Python	Ramco Institute of Technology	10.04.2023	13.04.2023
2.	Five Day FDP on "Microsoft Power BI Data Analyst Associate"	Ramco Institute of Technology	30.01.2023	03.02.2023
3.	Gaming in python	Ramco Institute of Technology	18.01.2023	
4.	Front End Development	Ramco Institute of Technology	15.12.2022	23.12.2022
5.	Robotics Process Automation	Ramco Institute of Technology	11.08.2022	13.08.2022
6.	Java Collections	Ramco Institute of Technology	12.01.2022	-
7.	Special Camp on “Physical and mental well-being of all in the RIT family”	Ramco Institute of Technology	10.01.2022	-
8.	RIT-AU sponsored-FDTP- CS8651 Internet Programming	Ramco Institute of Technology & Anna University	03.01.2022	08.01.2022
9.	Fields in CS	Ramco Institute of Technology	26.11.2021	-
10.	C Programming Course for Civil, EEE, ECE, Mechanical department Faculty Members	Ramco Institute of Technology	06.01.2021	12.02.2021
11.	Workshop on “Building Web APIs using Django framework”	Ramco Institute of Technology	15.08.2020	16.08.2020
12.	Webinar on “Trends In It Sector To Focus & Learn”	Ramco Institute of Technology	19.07.2020	-
13.	International Web Conference on Smart Engineering Technologies - 2020(Department Registration Committee coordinator)	Ramco Institute of Technology	26.06.2020	27.06.2020
14.	Covid-19 Contest by RIT- Ramco	Ramco Institute of Technology	01.06.2020	05.06.2020

15.	Six Days Workshop – “ADX-201- Salesforce Administrator” in association with ICTACT	Ramco Institute of Technology	25.11.2019	30.11.2019
16.	Bid The Questions in Techyuga'19	Ramco Institute of Technology	31.08.2019	-
17.	Five day value added course on “Problem solving Techniques”	Ramco Institute of Technology	17.06.2019	21.06.2019
18.	TECHYUGA’ 18 State Level Technical Symposium (Angry Nerds)	Ramco Institute of Technology	31.08.2018	-
19.	C Aptitude Test in Science day 2018	Ramco Institute of Technology	28.02.2018	-
20.	Technical Quiz in Techyuga'17	Ramco Institute of Technology	13.08.2017	-

## 7. Online Courses / NITTTR / NPTEL Courses

Sl.No	Course title	University	Date
1.	Programming in Python	NPTEL Swayam, Dibrugarh University	Dec 2023
2.	Matrix Algebra for Engineers	The Honk Kong University of Science and Technology	Nov 2023
3.	Blockchain Developer Training	SkillUp	Oct 2023
4.	Hyperledger Fabric Fundamentals (Java Script)	Kerala Blockchain Academy	Sep 2023
5.	Blockchain Foundation Program	Kerala Blockchain Academy	June 2023
6.	Professional Ethics and Sustainability	NITTTR	Feb 2023
7.	Institutional Management & Administrative procedures	NITTTR	July 2022
8.	Creative Problem Solving Innovation and Meaningful R&D	NITTTR	July 2022
9.	Block Chain 101	Infosys Spring Board	Dec 2022
10.	Mathematics for Machine Learning: Linear Algebra	Imperial College London	Sep 2022
11.	Theory of Computation	NPTEL Swayam, Indian Institute of Technology, Kanpur	Sep 2022

Updated as on 11.01.2024



12.	Student Assessment and Evaluation	NITTTR	Feb 2022
13.	Technology Enabled Learning & Life Long Self Learning	NITTTR	Feb 2022
14.	Machine Learning with Python	IBM	27.05.2022
15.	Tweet Emotion Recognition with Tensor Flow	Coursera Project Network	05.05.2022
16.	Introduction to Cloud Computing	IBM	06.01.2022
17.	Communication Skills, Modes & Knowledge Dissemination	NITTTR	24.10.2021
18.	Instructional Planning and Delivery	NITTTR	24.10.2021
19.	Orientation Towards Technical Education and Curriculum Aspects	NITTTR	23.10.2021
20.	Operations Research: an Active Learning Approach	The Hong Kong Polytechnic University	03.09.2020
21.	AI Chatbots without programming	IBM	29.08.2020
22.	Data Science: Linear Regression	Harvard University	21.08.2020
23.	Programming Foundations with JavaScript, HTML and CSS	Duke University	14.08.2020
24.	Blockchain Technology	Berkeley	03.08.2020
25.	Anomaly Detection in Time Series Data with Keras	Coursera	15.06.2020
26.	Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning	Deeplearning.ai	09.06.2020
27.	Multivariable Calculus	MIT OpenCourseware	01.06.2020
28.	Machine Learning	Tata Steel (Capability Development)	08.05.2020
29.	Web Accessibility Training	UNICEF	28.4.2020
30.	UX design for Mobile	Udacity	25.4.2020
31.	Block chain essentials	IBM Initiative	17.4.2020
32.	Mobile Marketing Course-Take advantage of the mobile marketing Revolution	Bit Degree	15.4.2020
33.	PostgreSQL	AWS	12.4.2020
34.	Introduction to Computational Thinking and Data Science	MITx	16.10.2019 to 21.12.2019
35.	Calculus 1C: Coordinate Systems & Infinite Series	MITx	06.03.2019 to 10.05.2019
36.	Problem solving through Programming In C	NPTEL	28.01.2019 to 27.04.2019
37.	Learn to program in Java	Microsoft	01.07.2018 to 01.10.2018

38.	Essential math for machine learning: R Edition	Microsoft	26.07.2018 to 01.10.2018
39.	Data Science: R Basics	Harvard University, US	15.12.2017 to 06.01.2018
40.	DAT208x:Introduction to Python for Data Science	Microsoft	06.07.2017 to 26.09.2017
41.	Application Development for Cloud Deployment using IBM BlueMix	IBM Career Education Program	10.08.2015 to 18.12.2015

#### 8. Expert Lectures Delivered:

Sl. No.	Nature of the Programme	Title of the Topic Delivered	Date(s)	Organization
1.	Boot Camp on Python	Control Flow statements, List, Dictionary	10.04.2023 to 13.04.2023	Ramco Institute of Technology
2.	Guest Lecture	Artificial Intelligence	18.03.2023	SBK College, Aruppukottai
3.	Five-day Value Added Course on Data Science	Data Visualization – Plots and Subplots Categorical Plotting	21.07.2022 to 26.07.2022	Ramco Institute of Technology
4.	Gaming in python	tkinter package in python	18.01.2023	Ramco Institute of Technology

#### 9. Research Grants/ Funded Projects obtained:

Sl. No.	Title of the Research Project	Grant received (Rs. in Lakhs)	Name of the Funding Agency	Project Duration (Years)
1.	Detection of Speed Breakers in Real Time for Indian Roads	Rs. 7,500	TNSCST	6 Months

#### 10. Achievements / Awards

- Completed the 4 credit course Programming in Python with a consolidated score of 97%
- Received Elite in Theory of Computation offered by Indian Institute of Technology, Kanpur
- Completed the Skill Development Training Program on “Artificial Intelligence and Machine Learning-III” and scored above 60% in the final assessment under joint venture of ISTE & BNY Mellon.
- Earned Mentor Badge for project submission in Cognizant Digital Nurture Technoverse Project Hackathon 2023.
- Completed 8 modules of the NITTTR course offered by AICTE.

Updated as on 11.01.2024

- Contributed as a Primary Evaluator in ‘Toycathon 2021’ organized by the Ministry of Education’s Innovation Cell and AICTE.
- Received Elite in Problem solving through Programming in C
- Anna University Rank Holder in PG (48<sup>th</sup> Rank)

#### **11. Membership in Professional societies**

The Indian Society for Technical Education (Life Member)