



# SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)

Nationally Accredited at 'A' Grade (4<sup>th</sup> Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution  
Tiruchirappalli - 620 002

Name : Ms V. MANIBABU  
Designation : Assistant Professor  
Department : Computer Applications  
Qualification : M.Sc., M.Phil.,PGDCA., M.C.A., M.Phil.,P.hD (doing)  
Experience : Teaching: 24 Years Research:20  
Area of Specialization(s) : Computer Networks, Artificial intelligence in Machine learning  
Email (Official ID) : [manibabu@sigc.edu](mailto:manibabu@sigc.edu)  
Aadhar Number : 5562 2264 8328

## Academic Qualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
M.Phil	Computer Science	Periyar Maniammai University	2012
M.C.A.,	Computer Applications	Bharathidasan university	2004
M.Phil.,	Mathematics	Madurai Kamaraj University	2003
M.Sc.	Mathematics	Bharathidasan University	2000
B.Sc.,	Mathematics	Govt.Arts.College Women,Pudukkottai	1998

## Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Diploma Course	“STEP INTO RPA”	UI PATH ACADEMIC ALLIANCE	2021

Certificate Course	“ORACLE CLOUD INFRASTRUCTURE FOUNDATIONS I”	Oracle Academy	2022
Diploma Course	“UiPath Studio Family”	ICT Academy Learnathon India 2023” Ui Path Academic Alliance	2023
Diploma Course	“Robotics Process Automation”	ICT Academy Learnathon India 2023” Automation Anywhere	2023
Diploma Course	“MongoDB Basics”	ICT Academy Learnathon India 2023” MongoDB	2023
PGDCA	Computer Applications	Bharathidasan university	2002

## Book Publications

Authored a book titled “ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS” with ISBN:978-93-341-5454-2” under Ryan Publishers.

## Presentations in Conference

1. Presented Paper on the topic “Artificial Neural Network in Detecting Estrus of Dairy Cattle” in the International conference on “Artificial Intelligence-Adoption and Application in Business” organised by Bishop Heber College Trichy held on 5 January 9 & 10, 2024.
2. Presented Paper on the topic “Disease control programming in Dairy farming using Artificial Intelligence” in the Inter National Research Conference on engineering Management Science and Technology held on 12.05.2023. organized by Department of Computer Science and Engineering J.J college of Engineering and Technology .
3. Presented Paper on the topic “Artificial Intelligence in dairy farming” in the National level conference on “Artificial intelligence and Internet of Things and Management Science and Technology” organized by Department of Computer Science and Engineering Mahendra college of Engineering held on 19 th April 2023.
4. Presented Paper on the topic “Machine learning in dairy farming” in the International conference on “Cloud Computing-Emerging Trends and Technologies” organized by Department of Computer Science, IT and Computer Applications of Shrimati Indira Gandhi College, Tiruchirappalli-620002 held on 10th to 11th March 2023.

## **Participation in Conference**

### ***International:***

1. Presented Paper on the topic “Artificial Neural Network in Detecting Estrus of Dairy Cattle” in the International conference on “Artificial Intelligence-Adoption and Application in Business” organised by Bishop Heber College Trichy held on 5 January 9 & 10, 2024.
2. Presented Paper on the topic “Disease control programming in Dairy farming using Artificial Intelligence” in the Inter National Research Conference on engineering Management Science and Technology held on 12.05.2023. organized by Department of Computer Science and Engineering J.J college of Engineering and Technology .
3. Presented Paper on the topic “Artificial Intelligence in dairy farming” in the National level conference on “Artificial intelligence and Internet of Things and Management Science and Technology” organized by Department of Computer Science and Engineering Mahendra college of Engineering held on 19 th April 2023.
4. Presented Paper on the topic “Machine learning in dairy farming” in the International conference on “Cloud Computing-Emerging Trends and Technologies” organized by Department of Computer Science, IT and Computer Applications of Shrimati Indira Gandhi College, Tiruchirappalli-620002 held on 10th to 11th March 2023.
5. Participated in the International conference on one-day International Conference on “Trends in Artificial Intelligence (ICTAI)” on 20.9.24 at Shrimati Indira Gandhi College.
6. Participated in the One-day International Conference on “Next Generation Technologies for Sustainable Computing - (ICNGT) 2025 organised by Department of Computer Applications(AICTE Approved), Shrimati Indira Gandhi College, Tiruchirappalli-2

### ***National:***

1. Participated in the National Conference on “Bio-informatic Tools for Gene and Protein Analysis” at Shrimati Indira Gandhi College, Tiruchirappalli-2 during 7 & 8 September 2007.
2. Participated in Regional conference on “Information Communication Technology –Trends” organized by Shrimathi Indira Gandhi College, Trichy on 21th November 2009.
3. Participated in the National Conference on “Software and Computing Technologies” jointly organized by BUTP, SIGC, Trichy and Computer Society of India, Trichy Chapter, CSI-WOMEN Students Branch of SIGC on 19th September 2012.
4. Attended a National Conference on "RECENT TRENDS IN CYBER SECURITY" organised by SHRIMATI INDIRA GANDHI COLLEGE, TIRUCHIRAPPALLI on 15.12.2021.

## **Participation in Seminars**

1. State Level Seminar on "COMPUTER ORIENTED MATHEMATICAL TECHNIQUES 2007 (SLSCOMT-2007) " at Shrimati Indira Gandhi College, Tiruchirappalli-2 during 10<sup>th</sup> & 11<sup>th</sup> August 2007.
2. Participated in the National level Seminar on "HIGH PERFORMANCE COMPUTING" organized by Shrimati Indira Gandhi College, Trichy on 23<sup>rd</sup> February 2012.
3. Participated in the National Seminar on "Cloud Computing" jointly organized by BUTP, SIGC, Trichy and Computer Society of India, Trichy Chapter on 26th September 2012.
4. Attended a Webinar series of SKYCAMPUS SEASON 3 organised by ICT ACADAMY from 27.4.2020 to 1.5.2020.
5. Attended a Super Session Webinar on "THE POWER OF A TEACHER" organised by ICT ACADAMY on 4.5.2020.
6. Attended a Webinar series of SKYCAMPUS SEASON 4 on "THE FUTURE OF EDUCATION, EMPLOYMENT & ENTREPRENEURSHIP" organised by ICT ACADAMY from 4.5.2020 to 8.5.2020.
7. Attended an International Webinar on "FUTURISTIC INFORMATION AND COMMUNICATION TECHNOLOGIES" organised by CSI, JAIPUR CHAPTER on 10.5.2020.
8. Attended a Webinar on "MACHINE LEARNING ALGORITHMS, APPLICATIONS AND TRENDS" organised by SHRI SHANKARLAL SUNDARBAI SHASUN JAIN COLLEGE FOR WOMEN, CHENNAI on 10.5.2020.
9. Attended a National Webinar on "DATABASES IN CLOUD" and "DATA SCIENCE USING PYTHON" organised by MAHENDRA ENGINEERING COLLEGE (AUTONOMOUS), TIRUCHENGODE (TK), NAMAKKAL on 15.5.2020 & 16.5.2020.
10. Attended a series of Webinars on various topics under "SVCT VIRTUAL CAMPUS SEASON 3" organised by SRI VENKATESWARAA COLLEGE OF TECHNOLOGY, SRIPERUMBUDUR from 20.5.2020 to 23.5.2020.
11. Attended a Webinar on "MICROSOFT AZURE AND ITS SERVICES" organised by BISHOP HEBER COLLEGE, on 27.5.2020.
12. Attended a Webinar on "EXPLORING DATA ANALYTICS USING SPARK PLATFORM AND CLOUD SERVICES USING KUBERNETES CONTAINERS" organised by BISHOP HEBER COLLEGE, on 28.5.2020.

13. Attended an International Webinar on "DISTRIBUTED CLOUD COMPUTING IN SOCIAL MEDIA" organised by SRIMAD ANDAVAN ARTS AND SCIENCE COLLEGE (AUTONOMOUS), TRICHY on 29.5.2020.
14. Attended a Webinar of SKYCAMPUS SUPER SESSION on "IMPROVING THE SKILL SET & CHANGING THE ATTITUDE " organised by ICT ACADEMY on 5.6.2020.
15. Attended a National Level Webinar on "DEVELOPING JSF WEB APPLICATIONS WITH HIBERNATE" - A HANDS ON APPROACH organised by BISHOP HEBER COLLEGE, TRICY on 6.6.2020.
16. Attended a Webinar on "INTRODUCTION TO E-LEARNING CONTENT CREATION" organised by CSI Chennai, ACM Chennai, IEEE CS Madras on 22.6.2020.
17. Attended a Two-Day Webinar on "RESEARCH METHODOLOGY, ARTICLE WRITING AND PUBLISHING" organised by IDHAYA ENGINEERING COLLEGE FOR WOMEN, CHINNASALEM on 23.6.2020 & 24.6.2020.
18. Attended a Two-Day Webinar on "FACILITATING 21ST CENTURY LEARNERS" organised by IDHAYA ENGINEERING COLLEGE FOR WOMEN, CHINNASALEM on 6.7.2020 & 7.7.2020.
19. Attended a Webinar on "DEFINE AND DESIGN YOUR DESTINY" organised by SHRIMATI INDIRA GANDHI COLLEGE, TRICHY-2 on 20.7.2020.
20. Attended a National Level Webinar on " REINFORCEMENT LEARNING" organised by SIR THEAGARAYA COLLEGE (SHIFT- II), CHENNAI on 04.09.2021.
21. Attended a National Level Webinar on "IOT COMMUNICATION PROTOCOLS" organised by Nehru Institute of Engineering and Technology, Coimbatore. on 15.09.2021.
22. Attended a NAAC Sponsored One-day Online Seminar on “Qualitative & Quantitative Metrics in RAAF of NAAC” organised by Rajalakshmi Engineering College Chennai on 17.09.2021.
23. Attended a National Level Webinar on "E-content Development" organised by UGC- HRDC Madurai Kamaraj University, Madurai on 18.09.2021.
24. Attended a National Level Webinar on “Application of Cognitive Technologies in Industry 4.0” organised by BABA GHULAM SHAH BADSHAH UNIVERSITY, RAJOURI(J&K) on 18.09.2021.
25. Attended a National Level Webinar on "ILLUMINATING MASTERY OF BIG DATA ANALYTICS & PYTHON" organised by AIMAN COLLEGE OF ARTS AND SCIENCE FOR WOMEN, TIRUCHIRAPPALLI on 06.10.2021.

26. Attended a National Level Webinar on "ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING - EMERGING TRENDS & APPLICATIONS" organised by BABA GHULAM SHAH BADSHAH UNIVERSITY, RAJOURI (J&K) on 06.10.2021.
27. Attended a National Level Webinar on "DATA ANALYTICS: Post COVID-19" organised by SIR THEAGARAYA COLLEGE (SHIFT- II), CHENNAI on 09.10.2021.
28. Attended a National Level Webinar on "IOT DEVELOPMENT BOARDS AND PROTOCOL" organised by SIR THEAGARAYA COLLEGE (SHIFT- II), CHENNAI on 29.10.2021.
29. Attended a National Level Webinar on "TIPS FOR CAREER GROWTH IN THE CLOUD INDUSTRY" organised by INLUSTRO on 12.07.2022.
30. Attended a UGC- HRDC Sponsored Webinar on "OUTCOME BASED PEDAGOGY, TEACHING/LEARNING AND ASSESSMENT" organised by Madurai Kamaraj University, Madurai on 17.08.2022.
31. Participated in an International seminar (Webinar) on "DATA SCIENCE AND MANAGEMENT OF DATA" organised by the Department of Information Technology, Dr.M.G.R. Educational and Research Institute., Chennai. on 12.06.2024.
32. Participated in a Lecture Series (International Webinar) on "Teacher as Facilitator" organised by IQAC Cell, Dr.M.G.R. Educational and Research Institute., Chennai. On 25.06.2024.
33. Participated in an International Seminar (Webinar) on "Empowering Educators for Tomorrow" organised by IQAC Cell, Dr.M.G.R. Educational and Research Institute., Chennai. On 25.06.2024.
34. Participated in an International Seminar (Webinar) on "Steps to write persuasive project proposals" organized by IQAC Cell, Dr.M.G.R. Educational and Research Institute., Chennai on 27.11.2024.
35. Participated in an International Seminar (Webinar) on "Cyber Literacy" organized by the Department of Computer Science (Digital Forensic Science and Cyber Security), Rev. Jacob Memorial College, Ambilikai on 14.12.2024.

### **Participation in Workshop**

1. Participated in the SERB sponsored 7 day National Level Workshop on "Applied Machine Intelligence techniques for Enterprise Architectures during 21-27<sup>th</sup> March 2022 held at Department of Computer applications NIT Trichy",
2. Participated in the National Level Workshop on "RECENT TRENDS IN HUMAN COMPUTER INTERACTION" organized by Computer Society of India, Trichy Chapter in association with CSI student Branch of MAM College, CSI student Branch of JMC, CSI student

Branch of SIGC and Dept. of CS\IT\MCA of Saranathan college of Engineering", Tiruchirappalli on 28<sup>th</sup> February 2015.

3. Attended a Workshop on "COMPUTER NETWORKS" organized by Arasu Engineering College, Kumbakonam from 06.07.2020 to 11.07.2020.
4. Attended a Workshop on "INFUSING CLOUD COMPUTING SERVICES AND ARTIFICIAL INTELLIGENCE IN MICROSOFT AZURE" organized by Bishop Heber College, Trichy on 23.07.2020.
5. Participated in the National Level Workshop on "RECENT TRENDS IN HUMAN COMPUTER INTERACTION" organized by Computer Society of India, Trichy Chapter in association with CSI student Branch of MAM College, CSI student Branch of JMC, CSI student Branch of SIGC and Dept. of CS\IT\MCA of Saranathan college of Engineering", Tiruchirappalli on 28<sup>th</sup> February 2023.
6. Participated in a Workshop on "Boot Camp on Python Programming" using Python at CADD Centre Training Services Private Limited on 28.08.2023.

### **Participation in Orientation Programme/Short Term Courses**

1. Attended a Two Days International Conclave on "EMERGING TRENDS AND APPLICATIONS" organised by THE SCHOOL OF COMPUTATIONAL STUDIES AND IQAC, SHRI SHANKARLAL SUNDARBAI SHASUN JAIN COLLEGE FOR WOMEN, CHENNAI IN ASSOCIATION WITH COMPUTER SOCIETY OF INDIA on 19.6.2020.
2. Attended a Five-Day International Lecture Series on "Cyber Security" organised by Srimad Andavan Arts & Science College (Autonomous) Trichy-05 from 13.09.2021 to 17.09.2021.
3. Attended the "NATIONAL CYBER SECURITY AWARENESS PROGRAM" organised by BHARATHIAR UNIVERSITY, COIMBATORE on 28.10.2021.
4. Attended the SCIENCE FESTIVAL by Tamil Nadu State Council for Science and Technology, Chennai organised by GOVERNMENT OF INDIA | MINISTRY OF SCIENCE AND TECHNOLOGY Department of Science and Technology (DST) & Tamil Nadu State Council for Science and Technology (TNSCST) Department of Higher Education, Government of Tamil Nadu, CHENNAI on 07.02.2022.
5. Participated in the NEP 2020 orientation and Sensitization programme under Malaviya Mission Teacher Training programme(MM-TTC) of University Grants Commission(UGC), organized by UGC-Malaviya Mission Teacher Training Centre (UGC-MMTTC), Bharathidasan University, Tiruchirappalli, Tamil Nadu from 19.2.2024 to 28.02.2024.

6. Participated in IPR awareness/training program under the special mission called “National Intellectual Property Awareness Mission (NIPAM)” organised by Office of Controller pGeneral of Patents, Designs and Trade Marks at Shrimati Indira Gandhi College, Trichy on 23/04/2024.

### **Participation in Faculty Development Programme**

1. Participated in two days of Faculty Development Program “Internet of Things” (IoT) conducted by ICT Academy of Tamil Nadu between 21st and 22nd of December 2017 held at K.Ramakrishna College of Engineering, Tiruchirappalli.
2. Participated in International FDP on “DISRUPTIVE TECHNOLOGIES” organised by AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY (AVIT), VINAYAKA MISSION'S RESEARCH FOUNDATION, DEEMED TO BE UNIVERSITY from 11.5.2020 to 16.5.2020.
3. Participated in a virtual FDP on “DATA SCIENCE WITH PYTHON" organised by ICT Academy from 18.5.2020 to 23.5.2020. (11.00 AM-12.30 PM)
4. Participated in an online FDP on “APPLICATIONS OF DATA ANALYTICS IN DATA SCIENCE” organised by NATIONAL COLLEGE (AUTONOMOUS), TRICHY ON 21.5.2020.
5. Participated in online FDP on "MACHINE LEARNING “organised by AUXILIUM COLLEGE, VELLORE on 1.6.2020.
6. Participated in online FDP on “INTRODUCTION TO BIG DATA ANALYTICS" organised by ICT Academy from 19.4.2021 to 23.4.2021.
7. Participated in online FDP on “CYBERSECURITY ESSENTIALS" organised by ICT Academy from 23.08.2021 to 27.8.2021.
8. Participated in online FDP on “DATA SCIENCE AND BIG DATA ANALYTICS" organised by PPG College of Arts and Science, Coimbatore from 25.08.2021 to 31.8.2021.
9. Participated in online FDP on “EXPLORING PYTHON PACKAGE FOR DATA ANALYSIS" organised by THASSIM BEEVI ABDUL KHADAR COLLEGE, CHENNAI from 26.08.2021 TO 28.08.202.
10. Participated in National Level online FDP on "LEARNING THROUGH GAMIFICATION:FUN IS THE FUTURE" organised by IQAC, NIRMALA COLLEGE, MUVATTUPUZHA from 22.09.2021 TO 24.09.2021.
11. Participated in Six Day National Level Virtual Faculty Enrichment Program on “ALIGNING WITH THE NEW EDUCATIONAL ERA” organised by Primax Foundation Bengaluru, Karnataka.
12. Participated in National Level online FDP on “INTRODUCTION TO CLOUD COMPUTING” organised by SHRIMATI INDIRA GANDHI COLLEGE, TIRUCHIRAPPALLI on 26.02.2022.



13. Participated in National Level online FDP on "COMMUNICATION SYSTEMS USING MACHINE LEARNING ALGORITHMS (CSMLA) organised by Annamacharya Institute of Technology and Sciences, Hyderabad from 14.03.2022 to 19.03.2022.
14. Participated in International online FDP on "TABLEAU" organised by SHRIMATI INDIRA GANDHI COLLEGE, TIRUCHIRAPPALLI from 14.06.2022 to 24.06.2022.
15. Participated in FDP on "SHAPE YOURSELF WITH SIDDHA" organised by SHRIMATI INDIRA GANDHI COLLEGE, TIRUCHIRAPPALLI on 14.07.2022.
16. Participated in National online FDP on "POSITIVE ASPECTS OF TEACHING PRACTICES" organised by THEIVANAI AMMAL COLLEGE FOR WOMEN, Villupuram-605402 from 20.02.2023 to 24.02.2023.
17. Participated in National online FDP on "Influence of Ai In Teaching & Research" organised by Hindustan College of Arts & Science, Coimbatore from 04.09.2023 to 09.09.2023.
18. Participated in National online FDP on "From Research to Publication" organised by Adhiyaman Arts And Science College For Women, Krishnagiri from 04.09.2023 to 11.09.2023.
19. Participated in International online FDP on "The Power of Positivity Approach In Teaching & Learning System of Cultural Transformation" organised by Hindustan College of Arts & Science, Coimbatore from 19.09.2023 to 16.09.2023.
20. Participated in 7 Days Online International Faculty Development Program on "Latest Trend and Techniques in Software Engineering: An Industry Perspective" organised by Department of Computer Science, CHRIST University, Bangalore Central Campus from 20.01.2024 to 27.01.2024.
21. Participated in Five Days Virtual Faculty Development Programme on "Integration of Technology in Teaching-Faculty Development Perspective" organised by IQAC Cell, Dr.R.V.Arts and Science College,Karamadai,Coimbatore from 29.01.2024 to 02.02.2024.
22. Participated in 2 Days Virtual Faculty Development Programme on "Evaluation Strategies & Classroom Management Skills" organised by IQAC, Michael Job Memorial College of Education for Women, Coimbatore from 05.02.2024 & 06.02.2024.
23. Participated in Five Days Virtual Faculty Development Programme on "Research - The Journey from Inception to Publishing" organised by IQAC & PG & Research Department of Computer Science, Dhanraj Baid Jain College, Chennai from 05.02.2024 to 09.02.2024.
24. Participated in Five-Day International Virtual Faculty Development Programme on "The Emerging Trends in Research and Teaching Technology" organised by St Thomas College of Arts and Science, Chennai from 26.02.2024 to 01.03.2024.

25. Participated in Five-Day International Virtual Faculty Development Programme on "Redefining Research Skills : Enriching Research and Publications" organised by Research & Development Cell, SHRIMATI INDIRA GANDHI COLLEGE, TIRUCHIRAPPALLI-2, from 01.04.2024 to 05.04.2024.
26. Participated in Five-Day National Virtual Faculty Development Programme on “Outcome Based Education (Use of AI Tools in Teaching and Learning)” organised by Academic Staff College, Dr.M.G.R. Educational and Research Institute., Chennai. from 22.04.2024 to 26.04.2024.
27. Participated in Five Days International Virtual Faculty Development Programme on "Effect of Generative AI in Modern Research and Industry" organised by Department Of Computer Science, Sister Nivedita University, Kolkata from 29.04.2024 to 03.05.2024.
28. Participated in Five-Day National Virtual Faculty Development Programme on “Intellectual Property Rights And Patent" organised by the Department of Information Technology, Dr.M.G.R. Educational and Research Institute., Chennai. from 20.05.2024 to 24.05.2024.
29. Participated in Seven Days FDP on “Understanding Outcome Based Education” organised by IQAC Cell, Shrimati Indira Gandhi College, Trichy-2 from 10.06.2024 to 15.06.2024 & 18.06.2024.
30. Participated in 7 days National Virtual Faculty Development Program on "Research Methodology - Writing Content for Thesis" organised by St.Joseph College (Arts & Science), Kovur, Chennai - 600128 from 19.08.2024 to 23.08.2024.
31. Participated in 5 days National Virtual Faculty Development Program on "Artificial Intelligence's Impact on Transforming Software,Electrical, Electronics & Mechanical Fields - Series - 2" organized by Dhaanish Ahmed College of Engineering, Chennai from 29.08.24 to 03.09.24.
32. Participated in 5 Days National Faculty Development Program on “Innovative Pedagogical Techniques in Management Education” organized by Kamal Institute of Higher Education and Advanced Technology,New Delhi in association with Ojha Publication and Research House, New Delhi from 21.10.2024 to 25.10.2024.
33. Participated in 5 days National Virtual Faculty Development Program on "Emerging Trends and Technologies using various Network Techniques" organized by PG and Research Department of Computer Science, St.Joseph College (Arts & Science), Kovur, Chennai - 600128 from 17.02.2025 to 21.02.2025.

### Conference/Seminar/Workshop Organized

1. One-day International Conference on “Next Generation Technologies for Sustainable Computing - (ICNGT) 2025 organised by Department of Computer Applications (AICTE Approved), Shrimati Indira Gandhi College, Tiruchirappalli-2.

### Editorial/Review Board Member

1. Member in College Magazine committee in Shrimati Indira Gandhi College Trichy-2

### Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
BDU EXAMINER -UG BOARD VALUATION TRICHY	Examiner	From 2003 to till date

### Awards/ Honors

Awards/ Honors	Agency/ Institute	Year of Award
“Outstanding Educator Award 2024”	GARC Mc Stem University	2024

### Recognition National/International

Nature of Recognition	Organization/Institution	Year
Won the First prize in National level seminar on emerging Trends of mathematical and their applications in computer science on 23rd and 24th February 2007 "	Shrimati Indira Gandhi College, Trichy.	2007
Certificate of appreciation in recognition as Mentor for the course "AG 2D,3D"	Govt Arts College Women	2001