

# BIODATA

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## Personal Details:

Age : 33  
Date of Birth : 05.02.1987  
Sex & Marital Status : Female & Married  
Citizenship : Indian

## Educational Qualification:

Educational Qualification	Programme and Specialisation	% of Marks	Month & Year of Passing	Institute/University	Class/ Division
PhD	Information and Communication Technology	-	Pursuing	Anna University, Chennai	-
M.E	Computer Science and Engineering	81	2012	M.S University	I Class with Distinction
B.Tech	Information Technology	77	2008	Anna University, Chennai	I Class

## Professional Experience :

Designation	Institution/ Organisation	Period	Nature of Duties
Asst. Professor	National Engineering college	04.06.2012 to Till date	Teaching, Administration & Research
Lecturer	S.Veerassamy Chettiar College of Engineering and Technology	19.01.2009 to 09.11.2011	Teaching

## Courses taught:

Course Title	U.G. or P.G.
Computer Graphics, Compiler Design, Computer Networks, Object Oriented Programming, Green Computing, Software Engineering Methodologies, Microcontroller and Embedded systems, Operating Systems, Cryptography and Network Security, Internet of Things	U.G
Computer Graphics, Software Project Management, Information Retrieval Techniques, Pattern Recognition	P.G

## Academic Achievements

### Student Funded Projects Guided

- NSTEDB-DST, New Delhi, EDII Ahmedabad NewGen IEDC sponsored funded project entitled on “Smart Trash Bin Management System using IOT” with a total cost of Rs.2,50,000/- (Completed)(2018-2019)

### Student Projects Participated in other competitions

- Guided a project titled “Railway track fault detecting system” which participated and received an appreciation award and certificate in DST-TI IICDC 2018 (Texas Instruments Innovation Challenge India Design Contest 2018)
- Guided a project titled “Women safety Device using IOT” which participated and received an appreciation award and certificate in DST-TI IICDC 2019 (Texas Instruments Innovation Challenge India Design Contest 2019)

### Short term Courses / Seminars / Conference/ Workshops organized:

Title	Event Type	Convener	Coordinator(s)	Sponsored?	Funding Agency Name(s)	Amount Sanctioned	No. of Participants	Dates(s) [dd/mm/yyyy]
Modern computing methodologies on Affective Brain computer Interface(ABCI)	Workshop	Dr.B.Paramasivan & Dr.V.Gomathi	B.Shunmugapriya	Sponsored	DBT	50000	49	08/01/2016 & 09/01/2016
Regional Conference on Soft computing and Computational Intelligence (CONSCI'16)	Conference	Ms.M.Carmel Sobia & B.Shunmugapriya	B.Shunmugapriya	Sponsored	ISTE	10000	64	10/03/2016 & 11/03/2016
Brain Computer Interface-Integrating EEG and Gaze	Seminar	Ms.M.Carmel Sobia & B.Shunmugapriya	B.Shunmugapriya	Sponsored	ISTE	10000	35	28/09/2016 & 29/09/2016
Regional Conference on Soft computing and Computation	Conference	Ms.M.Carmel Sobia & B.Shunmugapriya	B.Shunmugapriya	Sponsored	ISTE	10000	55	02/01/2017 & 03/01/2017

al Intelligence (CONSCI'17)								
“Research trends and innovations in vehicular networking and Intelligent vehicular communication”	Seminar	Dr.B.Parasivan & Ms.J.Naskath	B.Shunmugapriya	Sponsored	AICTE	100000	33	12 /10/2017 &13/10/ 2017
Regional Conference on Soft computing and Computational Intelligence (CONSCI'18)	Conference	Ms.M.Carmel Sobia & B.Shunmugapriya	B.Shunmugapriya	Sponsored	ISTE	5000	44	27/02/2018 & 28/02/2018
Wireless Body area networks-values and challenges using IOT	Seminar	Ms.M.Carmel Sobia & B.Shunmugapriya	B.Shunmugapriya	Sponsored	ISTE	5000	45	28/12/2018 & 29/12/2018
PyWeek- A PyGame developer contest	Programming Contest	Dr.B.Parasivan	B.Shunmugapriya	-	-	-	400	11 <sup>th</sup> – 23 <sup>rd</sup> May 2020
Introduction to PyGame - Python Programming Tutorials	Hands on training	Ms.M.Carmel Sobia & B.Shunmugapriya	-	-	-	-	40	16.05.2020
Expectations from industry Through ISTE Student Chapter	Webinar	Ms.M.Carmel Sobia & B.Shunmugapriya	-	-	-	-	65	23.05.2020

**Short term Courses / Seminars / Conference/ Workshops Attended:**

<b>S.No</b>	<b>Title</b>	<b>Period</b>	<b>venue</b>
1.	Technical seminar on Network security research issues and challenges	17/05/2010 & 18/05/2010	Mepco Shlenk Engg College, Sivakasi
2.	NPTEL (IIT Madras)	13/03/2015	National Engineering College
3.	Intellectual Property Rights and Innovations	07/11/2015	National Engineering College
4.	Research Aspirants Meet	7/01/2016 & 08/01.2016	National Engineering College
5.	DBT sponsored workshop "Modern computing methodologies on Affective Brain computer	08/01/2016 & 09/01/2016	National Engineering College
6.	FDTP on data warehousing and data mining	25/05/2016-31/05/2016	Anna University Tirunelveli
7.	Pattern Recognition and Machine learning: Techniques and its Application	10/8/2016 & 11/08/2016	National Engineering College
8.	NPTEL-How the Brain creates Mind	Jul- Aug 2016 (10 Hour course)	National Engineering College
9.	ISTE sponsored Brain Computer Interface-Integrating EEG and Gaze"	28 /09/2016 & 29/09/2016	National Engineering College
10.	NITTTR-Training programme on Instructional Design and Delivery systems	22/05/2017 to 27/05/2017	National Engineering College
11.	NITTTR-Training programme on "Technology enabled Teaching Learning Process"	27/05/2017 to 29/05/2017	National Engineering College
12.	Anna University sponsored FDTP on CS6503 Theory of Computation	01/06/2017 to 08/06/2017	National Engineering College
13.	Anna University sponsored FDTP on "Cryptography and Network Security"	13/06/2017 to 17/06/2017	Mepco Shlenk Engg College, Sivakasi
14.	NPTEL-Cognition, Transformation and Lives	Jul-Aug 2017(4 week course)	National Engineering College
15.	National level workshop on stimulating research perspectives on Big data-NLWSRPBD'18	Feb 28,2018	Anna University Tirunelveli
16.	Coursera-Embedded Hardware and Operating Systems	Jan-Feb. 2018	National Engineering College

17.	Operating Systems	26th Jan to 29th Jan 2018	Besant Technologies, Chennai
18.	System Design Aspects in IoT	26/06/2018 to 02/07/2018	National Institute of Technology Warangal
19.	NPTEL - Programming in C++ Elite Certification	06/08/2018 to 07/10/2018(8 weeks course)	National Engineering College
20.	Machine learning, Deep learning and Computational intelligence for wireless communication, MDCWC 2020	16/09/2019 to 20/09/2019	NIT, Trichy
21.	Introduction to Python Programming	01/08/2019 to 03/08/2019	National Engineering College
22.	NPTEL- Internet of Things Elite + Silver Certification	July to December 2019(12 week Course)	Online course
23.	C and C++ Workshop (IIT Bombay conducted)	29 February 2020	National Engineering College
24.	GUVI- Game development using PYGAME	08.04.2020	Online course
25.	Coursera course _ Internet of things and Embedded Systems	21.05.2020	Online course
26.	2 days Online FDP Ethical Hacking and Cyber Security	01.06.2020 to 02.06.2020	Shadan Womens College of Engineering and Technology
27.	Coursera course –Cyber security and Internet of things	03.06.2020	Online course
28.	Coursera course- Creating your C++ Applications	06.06.2020	Online course

**Expert Lecture Delivered :**

S.No	Title	venue	Date	Participants
1	Brain Computer Interface- Integrating EEG and Gaze”	National Engineering College	28/09/2016 & 29/09/2016	40
2	Wireless Body area networks- values and challenges using IOT	National Engineering College	28/12/2018 & 29/12/2018	45
3	System Aspects on Internet of Things	National Engineering College	21/07/2018	65
4	PyWeek- A PyGame developer contest	National Engineering College During Lockdown	11th – 23rd May 2020	400 +1 & +2 students

**Research Achievements :****Patent Published: 1**

SMART WASTE COLLECTING BIN

Application Number: 202041007420 dated: 21/02/2020

**Publications :****International Journal Publications:**

S.No	Title of the Paper	Authors	Name of the Journal	Vol.No & Page No.	Month & Year
1	Empirical evaluation of particle filtering and Non local mean method image reconstruction techniques	B.Shunmugapriya Dr.A.Surulandi	CiiT International Journals  (BEST PAPERS through ICCCE'2012 held in M.G.R. University, Chennai)	Vol 4, No 13	2012
2	Smart Health Monitoring System Using IoT for Assisted Living of Senior and Challenged People	R.Nivetha, S.Preethi, P.Priyadharshini, B.Shunmugapriya, J.Naskath	International Journal of Scientific & Technology Research - Scopus Indexed	VOLUME 9, ISSUE 02, ISSN 2277-8616	Feb, 2020
3	Protection against SQL injection attack in cloud computing	B.Shunmugapriya, Dr.B.Paramasivan	International Journal of Engineering Research & Technology (IJERT) - Scopus Indexed	Vol. 9 Issue 02 ISSN: 2278-0181	February-2020

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4	Emerging work on Smart Speaking System for Dumb People Using BCI	G.Aarthi, D.Ammu priya, R.Dhanalakshmi, A.R.Miradevi, B.Shunmugapriya	International Journal of Recent Technology and Engineering (IJRTE) - Scopus Indexed	Volume-8 Issue-6 ISSN: 2277-3878,	March 2020
5.	Real-time evaluation of heart beat rate for early detection of cardio vascular inflammation	A. Shenbagharaman, M.S.Gowtham, M.Anandapriya, B. Shunmugapriya	“Test Engineering and Management” - Scopus Indexed	Accepted	

### International Conference Publications:

S.No	Name of the Faculty	Title of the Paper	Name of the Conference	Organizer	Month & Year
1	B.Shunmugapriya	Empirical evaluation of particle filtering and Non local mean method image reconstruction techniques	IEEE sponsored International Conference on Computing and control engineering (ICCCE-2012)	Dr. M.G.R Educational and Research Institute, Chennai	12 <sup>th</sup> and 13 <sup>th</sup> April 2012
2	B.Shunmugapriya	Empirical evaluation of image reconstruction techniques	IEEE sponsored International Conference on Computing, Communication and Network technologies (ICCCNT-2012)	SNS College of Technology, (Autonomous), Coimbatore	26 – 28 July 2012
3	B.Shunmugapriya S.Suganya G.Suriyadharshini	Emerging work on electronic speaking system for dumb people	IEEE sponsored International conference on Computing Technologies and Intelligent Data Engineering(ICCTID E'16)	National Engineering College	07/01/2016 to 09/01/2016
4	R.Rajakumari B.Shunmugapriya S.Indumathy C.Umarani	An Adaptive System to Assist Physically Challenged from their Tilts	IEEE sponsored International conference on Computing Technologies and Intelligent Data Engineering(ICCTID E'16)	National Engineering College	07/01/2016 to 09/01/2016
5	B.Shunmugapriya R.Rajakumari S.Indumathy	Empirical evaluation of particle filtering	IEEE sponsored International conference on	National Engineering College	07/01/2016 to 09/01/2016

	C.Umarani	and markov random fields image reconstruction techniques	Computing Technologies and Intelligent Data Engineering(ICCTID E'16)		16
6	B.Shunmugapriya	EEG BASED EMOTION RECOGNITION USING VALANCE AROUSAL STIMULI,	IEEE International Conference on Advanced Computing and Communication Systems (ICACCS)	Coimbatore, INDIA	Jan. 06 – 07, 2017
7	B.Shunmugapriya	Securing Digital Image Using Cryptographic Key Generation Algorithm	INTERNATIONAL CONFERENCE ON APPLIED SOFT COMPUTING TECHNIQUES (ICASCT'18)	Kalasalingam University, Srivilliputhur	23 <sup>rd</sup> & 24 <sup>th</sup> March 2018
8	B.Shunmugapriya	Defending against SQL injection attack in cloud computing	INTERNATIONAL CONFERENCE ON APPLIED SOFT COMPUTING TECHNIQUES (ICASCT'18)	Kalasalingam University, Srivilliputhur	23 <sup>rd</sup> & 24 <sup>th</sup> March 2018
9	B.Shunmugapriya Siva Durga.K Sowndharya.P Sudalai Vadivoo.P	Optimized Routing in Wireless Body Area Network using Genetic Algorithm	International Conference on Innovations in Engineering, Science and Technology ICIEST-2019	Kalasalingam University, Srivilliputhur	15 <sup>th</sup> & 16 <sup>th</sup> February 2019
10	Sridarraj Rahul Saravanakumar B.Shunmugapriya	Skin Cancer Detection using Artificial Neural Network	5 <sup>th</sup> International Conference on latest trends in Science, Engineering and Technology	Karpagam Institute of Technology	22 <sup>nd</sup> & 23 <sup>rd</sup> March 2019
11	J.Naskath B.Paramasivan B.Shunmugapriya Hamza Aldabbas	Dynamic Cluster based Connectivity approach for Vehicular Adhoc Networks	International Conference on Innovative Computing and Cutting-edge Technologies (ICICCT 2019) Published in Springer Book - Learning and Analytics in Intelligent Systems	Middle East Association of Computer Science and Engineering (MEACSE) Istanbul , Turkey	October 30-31,2019

#### National Conference Publications:

S.No	Name of the Faculty	Title of the Paper	Name of the Conference	Organizer	Month & Year
1	B.Shunmugapriya	Empowering Indian Education for Global Expectations	17 <sup>th</sup> ISTE TN & P Section Annual Convention	ISTE TN & P & NEC	7/11/2014 and 8/11/2014



2	A.Mahalakshmi B.Shunmugapriya	Continuous Glucose Monitoring system	Seventh National Conference on Computer Science and Applications – NCCSA'19	MEPCO Schlenk Engineering College (Autonomous), Sivakasi	March 8 & 9, 2019.
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**Additional Responsibilities held :**

- Associate Warden – Ladies Hostel(2018-till date)
- ISTE Student Chapter Faculty advisor(2014-Till date)
- Department library-Incharge(2019-Till date)
- Lab Incharge IBM & Common Computer Lab (2019-Till date)
- AICTE, Anna University Affiliations, UGC, Governing Council & NAAC- Department Coordinator(2014-2019)
- Faculty Target (2017-2019)
- Department meetings(2015-2018)
- NPTEL Student Coordinator(2016-2018)
- Internship, Inplant training and industrial visit – student coordinator (2019-Till date)
- AICTE CII Survey- Incharge(2014-Till date)