MsBanumathi S

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Department of Computer Application,
Bishop Heber College,
Tiruchirappalli - 17.

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Phone : 8973519946

Web:

Qualification

Degree	Branch	Institution / University	Year of Passing
Ph.D in computer science	computer science	Bharathidasan University	2021
M PHIL	COMPUTER SCIENCE	St Josephs College	2011
M.SC	COMPUTER SCIENCE	Holy Cross College	2010
B.SC COMPUTER SCIENCE	COMPUTER SCIENCE	Bharathidasan University	2006

Ph.D. Details

Title of Thesis	Area of Specialization
FEATURE SELECTION APPROACHES TO ENHANCE THE ACCURACY OF MACHINE LEARNING ALGORITHMS ON BIG DATA	BIG DATA ANALYTICS

Research Supervisor	Research Centre	Year of Award
A ALOYSIUS	ST JOSEPH S COLLEGE	AUG 2021

Cleared NET / SET :	Details	Year of Passing
SET	1303259	FEB,2016

Additional Qualification

Name of Course	Place of Study	Date	Duration
ICT TOOLS FOR INTERACTIVE TEACHING AND BLENDED LEARNING	BISHOP HEBER COLLEGE, TRICHY	JULY , 2021	7 DAYS
Digital Teaching techniques	ICT ACADEMY	28 JAN 2022	ONE WEEK
PYTHON PROGRAMMING	BHARATHIYAR UNIVERSITY, COIMBATORE	FEB 2021	10 DAYS

Work Experience

Name of Institution	Address of Institution	Designation	From	To
ST JOSEPHS COLLEGE	TRICHY	ASSISTANT PROFESSOR	24-06-2013	31-04-2017
HOLY CROSS COLLEGE	TRICHY	ASSISTANT PROFESSOR	16-06-2017	30-09-2020

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IT Support, BHC.

Teaching / Research Experience

U.G. : 7   P.G. :   6   M.Phil.   0   Ph.D.   0

Research Guidance

U.G. :   6   P.G. :   5   M.Phil. :   0   Ph.D. :   0

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IT Support, BHC.

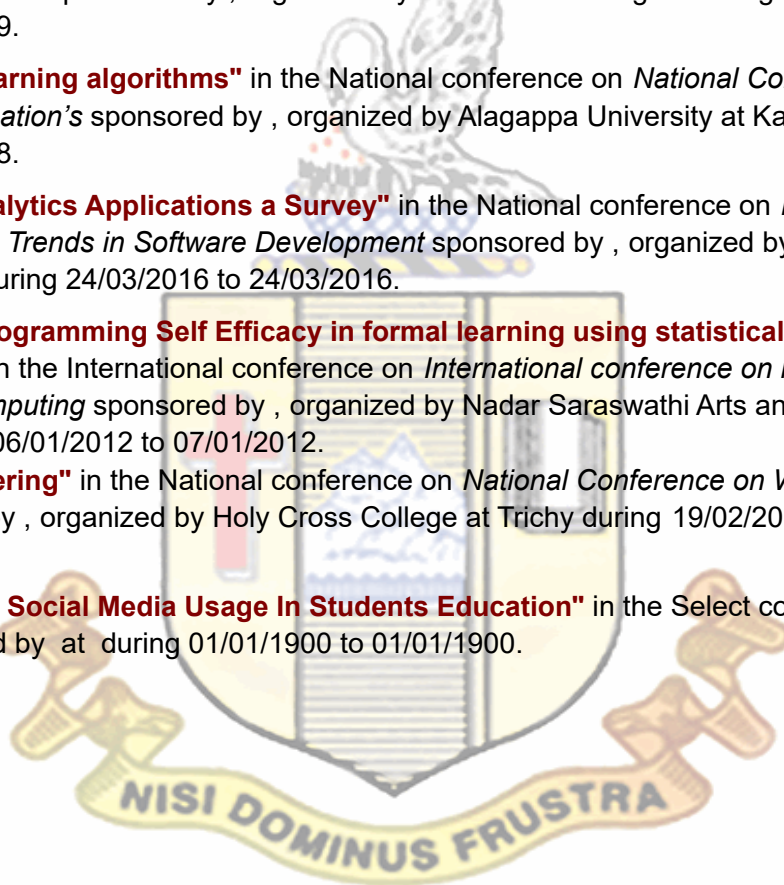## CONFERENCES / WORKSHOPS / SEMINARS ATTENDED   -   63

1. National level Conference on **"*Youth and Values*"** sponsored by HOLY CROSS COLLEGE organized by HOLY CROSS COLLEGE at TRICHY during 24/12/2021 to 01/01/1900.

2. International level Seminar on **"*THREE DAYS PANDAS DATA WRANGLING BOOT CAMP*"** sponsored by DEPARTMENT OF DATA SCIENCE organized by DEPARTMENT OF DATA SCIENCE at BISHOP HEBER COLLEGE during 25/10/2021 to 27/10/2021.

3. National level Seminar on **"*PANDAS DATA WRANGLING BOOT CAMP*"** sponsored by BISHOP HEBER COLLEGE organized by BISHOP HEBER COLLEGE at TRICHY during 25/10/2021 to 27/10/2021.

4. National level Orientation on **"*FDP ON DIGITAL TEACHING METHODS IN HIGHER EDUCATION*"** sponsored by HINDUSTAN COLLEGE OF ARTS AND SCIENCE COLLEGE organized by HINDUSTAN COLLEGE OF ARTS AND SCIENCE COLLEGE at TRICHY during 23/08/2021 to 28/08/2021.

5. National level Workshop on **"*NAAC's Revised Guidelines for Accreditation and Assessment of Higher Education*"** sponsored by EDU PASS FOUNDATION organized by EDU PASS FOUNDATION at COIMBATORE during 03/06/2021 to 05/06/2021.

6. National level Orientation on **"*ONE WEEK FDP ON BLOCK CHAIN WITH CYBER SECURITY*"** sponsored by EASWARI ENGINEERING COLLEGE organized by EASWARI ENGINEERING COLLEGE at CHENNAI during 24/05/2021 to 29/05/2021.

7. International level Conference on **"*"International Conference on Intelligent and Computing Systems (ICICS) – 2021"*"** sponsored by BISHOP HEBER COLLEGE organized by BISHOP HEBER COLLEGE at TRICHY during 22/03/2021 to 22/03/2021.

8. National level Workshop on **"*TECHNOLOGY COMMERCIALIZATION*"** sponsored by TURNIP INNOVATIONS organized by TURNIP INNOVATIONS at MUMBAI during 15/02/2021 to 15/02/2021.

9. National level Seminar on **"*Webinar on "IP & Wealth Creation"*"** sponsored by Bishop Heber College organized by Bishop Heber College at TRICHY during 09/02/2021 to 09/02/2021.

10. National level Seminar on **"* Master Class on " Essentials of Patent Analytics"*"** sponsored by Turnip Innovations organized by Turnip Innovations at Chennai during 06/02/2021 to 01/01/1900.

11. National level Seminar on **"*IMPACT OF DIGITAL MARKETING TECHNIQUES ON STARTUP*"** sponsored by PONJESLY ENGINEERING COLLEGE organized by PONJESLY ENGINEERING COLLEGE at TRICHY during 25/01/2021 to 25/01/2021.

12. National level Seminar on **"*Webinar on "Impact of Digital Marketing Techniques on Startup"*"** sponsored by Ponjesly College of Engineerin organized by Ponjesly College of Engineerin at Nagarcoil during 25/01/2021 to 25/01/2021.

13. National level Seminar on **"*Webinar on "Data and Analytics"*"** sponsored by Ponjesly College of Engineerin organized by Ponjesly College of Engineerin at Nagarcoil during 18/01/2021 to 18/01/2021.

14. National level Seminar on **"*DATA AND ANALYTICS*"** sponsored by PONJESLY COLLEGE OF ENGINEERING organized by PONJESLY COLLEGE OF ENGINEERING at TRICHY during 18/01/2021 to 18/01/2021.

15. State level Seminar on **"*Webinar on "Image Processing Trends and Applications"*"** sponsored by Bishop Heber College organized by Bishop Heber College at TRICHY during 18/11/2020 to 01/01/1900.

16. College level Seminar on **"*Webinar on " Breast Cancer Awareness"*"** sponsored by Bishop Heber College organized by Bishop Heber College at TRICHY during 21/10/2020 to 21/10/2020.

17. College level Seminar on **"*Special Lecture on "Building Character and competency through whole person Education*"** sponsored by Bishop Heber College organized by Bishop Heber College at TRICHY during 13/10/2020 to 16/10/2020.
18. National level Seminar on **"*Webinar on "Research Writing Tools and Techniques'*"** sponsored by Bishop Heber College organized by Bishop Heber College at TRICHY during 15/07/2020 to 01/01/1900.
19. College level Seminar on **"*Webinar on "ICT Tools for the 21st Centuary Teacher'*"** sponsored by HOLY CROSS COLLEGE organized by HOLY CROSS COLLEGE at TRICHY during 10/07/2020 to 01/01/1900.
20. State level Seminar on **"*Online Faculty Development Program on "Plagiarism in Research and Steps to Prevent'*"** sponsored by Queens College of Arts and Science For Women organized by Queens College of Arts and Science For Women at PuduKottai during 08/07/2020 to 01/01/1900.
21. College level Seminar on **"*Webinar on "Information Technology in Health Care'*"** sponsored by HOLY CROSS COLLEGE organized by HOLY CROSS COLLEGE at TRICHY during 04/07/2020 to 04/07/2020.
22. National level Seminar on **"*Online Faculty Development Program on "Artificial Intelligence and IoT- Heuristic Transdisciplinary perspectives*"** sponsored by HOLY CROSS COLLEGE organized by HOLY CROSS COLLEGE at TRICHY during 04/07/2020 to 10/07/2020.
23. National level Seminar on **"*Webinar on "Energy Efficient in Wireless Sensor Network "*"** sponsored by Francis Xavier Engineering College organized by Francis Xavier Engineering College at Tirunelveli during 30/06/2020 to 30/06/2020.
24. College level Seminar on **"*Webinar on "Discover your Values on Covid-19'*"** sponsored by HOLY CROSS COLLEGE organized by HOLY CROSS COLLEGE at TRICHY during 10/06/2020 to 01/01/1900.
25. College level Seminar on **"*Webinar on " Menstrual hygiene and Reproductive Health Care'*"** sponsored by HOLY CROSS COLLEGE organized by HOLY CROSS COLLEGE at TRICHY during 03/06/2020 to 01/01/1900.
26. College level Seminar on **"*Webinar series on Seed and Weed Nurturing Relationships*"** sponsored by HOLY CROSS COLLEGE organized by HOLY CROSS COLLEGE at TRICHY during 02/06/2020 to 02/06/2020.
27. College level Seminar on **"*Webinar on "Remote Class rooms-Digital Technology in teaching and learning'*"** sponsored by HOLY CROSS COLLEGE organized by HOLY CROSS COLLEGE at TRICHY during 30/05/2020 to 01/01/1900.
28. College level Seminar on **"*Webinar on "Andragogy of Online-Teaching'*"** sponsored by HOLY CROSS COLLEGE organized by HOLY CROSS COLLEGE at TRICHY during 29/05/2020 to 29/05/2020.
29. National level Seminar on **"*Online Faculty Development Program on Emerging Technologies in Computer Science*"** sponsored by Dr.M.G.R. Educational & Research Institute organized by Dr.M.G.R. Educational & Research Institute at Chennai during 28/05/2020 to 02/06/2020.
30. State level Seminar on **"*Webinar on " Image Processing Techniques Using MAT Lab'*"** sponsored by J.J arts and science college organized by J.J arts and science college at PuduKottai during 28/05/2020 to 01/01/1900.
31. National level Seminar on **"*FDP on "Web Application Security'*"** sponsored by Jeppiaar Institute of Technology organized by Jeppiaar Institute of Technology at Chennai during 27/05/2020 to 28/05/2020.
32. National level Seminar on **"*Webinar on " Microsoft Azure and its Services'*"** sponsored by Bishop Heber College organized by Bishop Heber College at TRICHY during 27/05/2020 to 27/05/2020.
33. International level Seminar on **"*International Webinar on " Cloud Security*"** sponsored by Shasun Jain College for Women organized by Shasun Jain College for Women at Chennai during 25/05/2020 to 01/01/1900.

34. National level Seminar on **"** *Change is the essence of Life***"** sponsored by ICT academy organized by ICT academy at Chennai during 25/05/2020 to 25/05/2020.

35. National level Seminar on **"*Webinar series on Reimagining Research in the Era of Disruptions and Uncertainties*"** sponsored by HOLY CROSS COLLEGE organized by HOLY CROSS COLLEGE at TRICHY during 21/05/2020 to 01/01/1900.

36. State level Seminar on **"*FDP on "Applications of Data Analytics in Data Science'"*"** sponsored by National College organized by National College at TRICHY during 21/05/2020 to 21/05/2020.

37. National level Seminar on **"*Webinar on "Machine Learning and Deep Learning*"** sponsored by Kasthurba Gandhi Degree & PG College for Women organized by Kasthurba Gandhi Degree & PG College for Women at Secundarabad during 20/05/2020 to 20/05/2020.

38. College level Seminar on **"*Webinar on "Optimizing family during lockdown'"*"** sponsored by HOLY CROSS COLLEGE organized by HOLY CROSS COLLEGE at TRICHY during 19/05/2020 to 19/05/2020.

39. National level Seminar on **"*FDP on "Hands on : Data Science using Python'"*"** sponsored by Jeppiaar Institute of Technology organized by Jeppiaar Institute of Technology at Chennai during 18/05/2020 to 22/05/2020.

40. National level Seminar on **"*National Level E-Quiz on Mobile App Development*"** sponsored by Sri Saradha College for Women organized by Sri Saradha College for Women at Tirunelveli during 16/05/2020 to 01/01/1900.

41. State level Seminar on **"*FDP on "Recent Trends in Color Image Processing'"*"** sponsored by Patrician College of Arts and Science, organized by Patrician College of Arts and Science, at Chennai during 11/05/2020 to 01/01/1900.

42. College level Seminar on **"*Webinar on " Unleashing Machine Learning and Cloud Computing'"*"** sponsored by HOLY CROSS COLLEGE organized by HOLY CROSS COLLEGE at TRICHY during 09/05/2020 to 01/01/1900.

43. State level Seminar on **"*FDP on "Recent Insights on Cyber Security'"*"** sponsored by Cauvery College organized by Cauvery College at TRICHY during 07/05/2020 to 01/01/1900.

44. International level Conference on **"*5 th International Conference on Computing Paradigms*"** sponsored by Don Bosco College organized by Don Bosco College at Yelagiri during 30/08/2019 to 31/08/2019.

45. International level Conference on **"*Artificial Intelligence and Its impact on Managing Businesses*"** sponsored by St.Joseph's Institute of Management organized by St.Joseph's Institute of Management at TRICHY during 12/01/2019 to 01/01/1900.

46. Regional level Workshop on **"*Workshop on NPTEL*"** sponsored by Ramakrishna College of Engineering and technology organized by Ramakrishna College of Engineering and technology at Samayapuram during 31/10/2018 to 01/01/1900.

47. National level Workshop on **"*Workshop on Rapid Application Development Using Python*"** sponsored by Bishop Heber College organized by Bishop Heber College at TRICHY during 01/09/2018 to 01/01/1900.

48. National level Conference on **"*Recent Trends in information's*"** sponsored by Alagappa University, Karaikudi organized by Alagappa University, Karaikudi at Karaikudi during 24/03/2018 to 01/01/1900.

49. International level Conference on **"*2nd World congress on computing and communication technologies*"** sponsored by ST JOSEPHS COLLEGE organized by ST JOSEPHS COLLEGE at TRICHY during 02/02/2017 to 04/02/2017.

50. College level Workshop on **"*National Seminar on Effective eLearning with Cloud-based Services and LMS*"** sponsored by ST JOSEPHS COLLEGE organized by ST JOSEPHS COLLEGE at TRICHY during 15/12/2016 to 16/12/2016.

51. National level Workshop on **"*Workshop on Big data Analytics and Business Intelligence*"** sponsored by ST JOSEPHS COLLEGE organized by ST JOSEPHS COLLEGE at TRICHY during 15/07/2016 to 16/07/2016.

52. National level Workshop on **"*Platforms on Big data Analytics*"** sponsored by National Institute of Technology organized by National Institute of Technology at TRICHY during 15/07/2016 to 01/01/1900.

53. National level Conference on **"*Role and Application of Statistics in multi-disciplinary Research*"** sponsored by Thanthai Hans Roever College organized by Thanthai Hans Roever College at Perambalur during 25/03/2016 to 01/01/1900.

54. National level Conference on **"*National Conference on "Emerging Trends in Software Developmen*"** sponsored by Alagappa University organized by Alagappa University, Karaikudi at Karaikudi during 24/03/2016 to 01/01/1900.

55. National level Conference on **"*Innovations in Big Data Search Mining and Management*"** sponsored by Arul Anandar College organized by Arul Anandar College at Karumathur during 06/02/2016 to 01/01/1900.

56. International level Conference on **"*International Conference on Mathematical Methods and computations*"** sponsored by JAMAL MOHAMED COLLEGE organized by JAMAL MOHAMED COLLEGE at TRICHY during 22/01/2015 to 23/01/2015.

57. International level Conference on **"*International conference on Recent trends in information processing and computing*"** sponsored by Nadar Saraswathi College organized by Nadar Saraswathi College of Arts and Science at Theni during 06/01/2012 to 07/01/2012.

58. National level Workshop on **"*Research Tools in Computer Science*"** sponsored by Bishop Heber College organized by Bishop Heber College at TRICHY during 28/01/2011 to 29/01/2011.

59. National level Workshop on **"*Workshop on Android Programming*"** sponsored by ST JOSEPHS COLLEGE organized by ST JOSEPHS COLLEGE at TRICHY during 27/01/2011 to 01/01/1900.

60. National level Workshop on **"*Research and development: national and Global perspectives*"** sponsored by ST JOSEPHS COLLEGE organized by ST JOSEPHS COLLEGE at TRICHY during 18/01/2011 to 01/01/1900.

61. National level Conference on **"*NATIONAL CONFERENCE ON WEB ENGINEERING*"** sponsored by HOLY CROSS COLLEGE organized by HOLY CROSS COLLEGE at TRICHY during 19/02/2010 to 20/02/2010.

62. National level Conference on **"*Computing and Communication Technologies*"** sponsored by JAMAL MOHAMED COLLEGE organized by JAMAL MOHAMED COLLEGE at TRICHY during 01/01/1900 to 01/01/1900.

63. National level Orientation on **"*FACULTY DEVELOPMENT PROGRAM TECHNOLOGY TRENDS AND ADVANCED MACHINE LEARNING*"** sponsored by KRISTU JAYANTHI COLLEGE organized by KRISTU JAYANTHI COLLEGE at BENGALURU during 01/01/1900 to 01/01/1900.

1. **"A THEORITCAL COMPARATIVE ANALYSIS OF FEATURE SELECTION METHODS TO REDUCE DATA DIMENSIONS IN MACHINE LEARNING BASED PREDICTION MODEL ON BIG DATA"** in the International conference on *INTERNATIONAL CONFERENCE ON INTELLIGENT AND COMPUTING SYSTEMS* sponsored by , organized by BISHOP HEBER COLLEGE at TRICHY during 22/03/2021 to 22/03/2021.

2. **"A STUDY ON PREDICTIVE ANALYTICS USING REGRESSION ALGORITHMS"** in the Select conference on *CONTEMPROARY DEVELOPMENTS IN COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE AND DATA SCIENCE* sponsored by , organized by SRM ARTS AND SCIENCE COLLEGE at TRICHY during 05/03/2021 to 05/03/2021.

3. **"Analysis of various machine learning algorithms to predict type II diabetic disease"** in the International conference on sponsored by , organized by Don Bosco College at Yelagiri during 30/08/2019 to 31/08/2019.

4. **"A study on Machine learning algorithms"** in the National conference on *National Conference on "Recent Trends in information's* sponsored by , organized by Alagappa University at Karaikudi during 21/03/2018 to 22/03/2018.

5. **"Insight on Big data analytics Applications a Survey"** in the National conference on *National conference on Emerging Trends in Software Development* sponsored by , organized by Alagappa University at Karaikudi during 24/03/2016 to 24/03/2016.

6. **"An investigation on Programming Self Efficacy in formal learning using statistical and interesting measures"** in the International conference on *International conference on information processing and   computing* sponsored by , organized by Nadar Saraswathi Arts and Science College at Theni during 06/01/2012 to 07/01/2012.

7. **"Semantic Web Engineering"** in the National conference on *National Conference on Web engineering* sponsored by , organized by Holy Cross College at Trichy during 19/02/2010 to 20/02/2010.

8. **"Statistical Analysis On Social Media Usage In Students Education"** in the Select conference on sponsored by , organized by at during 01/01/1900 to 01/01/1900.

Publication in Journals   -   14

1. **"MF-ensemble Algorithm for Multi filter feature selection to enhance Supervised Machine Learning Accuracy on big data"** published in IEEE EXPLORER (CONFERENCE PROCEEDING) Vol. , Issue No. , March 2021 **ISSN :** 978-1-7281-9537-21.

2. **"Hadoop Based Paradigm Using Hybrid Feature   Selection Approach to Enhance Performance in Supervised Learning Classification"** published in   International Journal of Advanced Science and Technolog (PEER REVIEW) Vol. 29, Issue No. 5, February 2020 **ISSN :** 2005-4238.

3. **"A Study On Smart Irrigation Systems For Agriculture Using Iot"** published in International Journal of Scientific Research in Computer Science, Engineering and Information Technology (PEER REVIEW) Vol. 8, Issue No. 12, December 2019 **ISSN :** 2277-8616.

4. **"IOT Sensors And Applications: A Survey"** published in INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH (PEER REVIEW) Vol. 8, Issue No. 8, August 2019 **ISSN :** 2277-8616.

5. **"An Enhanced Preprocessing Algorithms and Accuracy Prediction of Machine Learning Algorithms"** published in International Journal of Scientific & Technology Research (PEER REVIEW) Vol. 8, Issue No. 8, August 2019 **ISSN :** 2277-8616.
   Impact factor , **Scopus Index** , **h - index** , **Citation index** 0.2

6. **"Analysis of Various Machine Learning Algorithms to Predict the Type II Diabetes Disease 12."** published in International Journal of Computing Algorithm (CONFERENCE PROCEEDING) Vol. 8, Issue No. 1, January 2019 **ISSN :** ---.

7. **"Big Data Pre-Processing Methods: A   Survey"** published in International Journal of Scientific Research in Computer Science, Engineering and Information Technology (PEER REVIEW) Vol. 7, Issue No. 3, May 2018 **ISSN :** 2319 – 1953.

8. **"A Review on Machine Learning Prediction Algorithms""** published in International Journal of Scientific Research in Computer Science Applications and Management Studies (PEER REVIEW) Vol. 7, Issue No. 3, May 2018 **ISSN :** 2319 – 1953.

9. **"Prediction Model With Selection Of Best Prediction Algorithm For Big Data"** published in Saudi Journal of Engineering And Technology (SJEAT) Scholars Middle East Publishers Dubai, United Arab Emirates (PEER REVIEW) Vol. 3, Issue No. 3, March 2018 **ISSN :** 2415-6272.
   Impact factor , **Scopus Index** , **h - index** 6, **Citation index** 2

10. **"Usage And Impact of Social Media in Student's Education"** published in International Journal of Creative Research Thoughts (PEER REVIEW) Vol. 5, Issue No. 3, October 2017 **ISSN :** 2320-2882.

11. **"Social Network Prediction Measurement in Education"** published in International Journal of Scientific Research in Computer Science, Engineering and Information Technology (PEER REVIEW) Vol. 2, Issue No. 5, October 2017 **ISSN :** 2456-3307.

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IT Support, BHC.

12. **"Predictive Analytics Concepts in Big Data-A Survey"** published in International Journal of Advanced Research in Computer Science (PEER REVIEW) Vol. 8, Issue No. 8, January 2017 ISSN : 0976-5697.

13. **"Big Data Prediction Using Evolutionary Techniques: A Survey"** published in Journal of Emerging Technologies and Innovative Research (PEER REVIEW) Vol. 3, Issue No. 9, September 2016 ISSN : 2349-5162.

Books Published / Edited - 1

* . *TRB-WEB SCRIPTING*. : , January 1900.

Conferences / Workshops / Seminars Organised - 2

1. National level Seminar Entitled **"Insights on Big data Challenges and Opportunities"** at Holy Cross College, Trichy, sponsored by , during 04/09/2020 to 04/09/2020.

2. International level Conference Entitled **"International Conference on Smart and Innovative technologies"** at Holy Cross College, Trichy, sponsored by , during 16/03/2020 to 17/03/2020.

TRAINING PROGRAMME - 1

NATIONAL level on **"Online Training Programme on Python Programming"** Sponsored by , Organized by Bharathiyar University at Coimbatore during 15/02/2021 - 26/02/2021.

RESOURCE PERSON - 1

1. College level Invited Lectures on **"Web Scripting"** at Trichy, 01/05/2019.

JOURNAL REFEREE

1. Reviewer of International Journal *"INTERNATIONAL JOURNAL OF RESEARCH AND ANALYTICAL REVIEWS"*(vol.) at INDIA during 09/02/2022 - Till Date.

2. Reviewer of International Journal *"Journal of Big Data, Springer"*(vol.) at during 05/11/2017 - Till Date.

Signature of Staff
(Banumathi S)