

MOBILE 9544227925

PHONE 9544227925

EMAIL drsoumya@sgcaruvithura.ac.in

EMAIL mariyam.george@gmail.com

WEB sites.google.com/view/soumya-george/home

LINKEDIN linkedin.com/in/drsoumya-george-043bab16

SCHOLAR scholar.google.com/citations?user=w-aPlpIAAAJ&hl=en

RESEARCHGATE researchgate.net/profile/Soumya-George-2?ev=hdr_xprf

ORCID 0000-0002-7256-7677

SCOPUS 57209690660

WOS QXK-2435-2026

OFFICE Department of Computer Applications



Dr. Soumya George Ph. D

Assistant Professor · Department of Computer Applications

PROFILE

Dr. Soumya George is an Assistant Professor in the Department of Computer Applications at St. George's College, Aruvithura. She received her Ph.D. in Computer Science from Cochin University of Science and Technology. She was the BCA First Rank Holder and MCA Second Rank Holder from Mahatma Gandhi University, Kottayam. Her primary areas of research include data mining, information retrieval, and related fields, with a strong focus on both theoretical and applied aspects. She has many journal publications and conference proceedings to her credit and has also authored a book in her domain of expertise. In addition to her research contributions, she is a Neo4j Certified Professional with expertise in graph databases and their applications. She actively serves the academic community as a reviewer for several leading journals, including IGI Global, as well as for numerous international conference papers.

APPOINTMENT

Joined 06 August 2021 · **Teaching** 5 Years · **Industry** Nil · **Research** 3.9 Years

SPECIALISATION

Data mining · Information Retrieval

RESEARCH INTERESTS

Data mining · Information Retrieval

COURSES HANDLED

Data mining · Database Management Systems (Both Theory and Lab) · Object Oriented Programming – JAVA (Both Theory and Lab) · C programming (Both Theory and Lab) · Advanced microprocessors and embedded systems · Operating System · Artificial Intelligence · Digital Fundamentals · Software Engineering · Cyber laws and Security · Digital Marketing · Disaster management

LABORATORIES

C programming · DBMS · Java

QUALIFICATIONS	Ph. D — Computer Applications	2020
	DCA, CUSAT, Cochin University of Science and Technology	
	Thesis: A Novel Sequence Graph-based Search Engine using Subject Wise Labeling for the Academic Knowledge Base	
	MCA — Computer Applications	2010
	MA College of Engineering, Kothamangalam, MG University, Kottayam	
	First Class with Distinction(University 2nd Rank)	
	BCA — Computer Applications	2007
	BPC College, Piravom, MG University, Kottayam	
	First Class with Distinction	

EXPERIENCE	Assistant Professor, BCA	6th August 2021 – Present
	St. George’s College Aruvithura · Teaching	
	Assistant Professor, MCA	1st August 2018 – 5th August 2021
	St. Joseph’s College of Engineering & Technology, Palai · Teaching	
	Research Scholar	4th November 2014 – 31st July 2018
	Cochin University of Science and Technology (CUSAT) · Research	

RESPONSIBILITIES	Member of Research Cell	2023 – Present
	SGC Aruvithura	
	Member of Music Club	2023 – Present
	SGC Aruvithura	
	YIP Coordinator	2021 – Present
	SGC Aruvithura	
	NAAC Criteria 1 Member	2021 – Present
	SGC Aruvithura	
	Association in-Charge	2021 – Present
	BCA, SGC Aruvithura	
	NAAC Coordinator	2021 – Present
	BCA, SGC Aruvithura	

JOURNAL PAPERS	[1] Anjala Michael, Soumya George, “Sensors in Daily Life,” <i>VSRD International Journal of Technical & Non-Technical Research</i> , VSRD International Journal of Technical & Non-Technical Research, no. 14(Special Issue), pp. 59–62, 2023. PEER REVIEWED	
	[2] Soumya George, “Comparison of Full-Text Indexing with Metadata Indexing Based Subject Classification Using Graph-Based Index,” <i>International Journal of Scientific Research in Computer Science, Engineering and Information Technology</i> , TechnoScience Academy, vol. 8, no. 5, pp. 86–91, 2022. ISSN 2456-3307. doi: https://doi.org/10.32628/CSEIT228516 . PEER REVIEWED	
	[3] Soumya George, “F-GSC, A Flexible Graph-based Subject Classifier for Scientific Articles using Topic Hierarchy,” <i>International Journal of Scientific Research in Computer Science and Engineering</i> , ISROSET, vol. 10, no. 6, pp. 69–80, 2022. ISSN 2320-7639. doi: https://ijsrcse.isroset.org/index.php/j/article/view/512 . PEER REVIEWED	

- [4] George, S., Elayidom, M. S., & Santhanakrishnan, T., "A Novel Sequence Graph-Based Approach to Find Academic Research Trends," *International Journal of Web Portals (IJWP)*, IGI Global Scientific Publishing, vol. 12, no. 1, pp. 45-56, 2020. ISSN 1938-0194. doi: 10.4018/IJWP.2020010104. SCOPUS IF 0.85
- [5] S George, T. S., M. Sudheep Elayidom., "Semantic Desktop Search Engine using Graph Database," *International Journal of Recent Technology and Engineering (IJRTE)*, Blue Eyes Intelligence Engineering and Sciences Publication (BEIESP), vol. 8, no. 1S2, pp. 373-375, 2019. ISSN 2277-3878. doi: A00870581S219/19. PEER REVIEWED
- [6] S George, T. S., M. Sudheep Elayidom., "Knowledge Graph Based Subject Classification of Scholarly Articles," *Journal of Advanced Research in Dynamical and Control Systems*, Institute of Advanced Scientific Research, vol. 11, no. 02-Special, pp. 1763-1776, 2019. doi: <https://www.jardcs.org/abstract.php?id=1129>. SCOPUS
- [7] George, S., Elayidom, M. S., & Santhanakrishnan, T., "A Novel Approach to Find Author's Research Areas of Interests Using Graph Database," *International Journal of Web Portals (IJWP)*, IGI Global Scientific Publishing, vol. 11, no. 2, pp. 67-74, 2018. ISSN 1938-0194. doi: 10.4018/IJWP.2019070105. SCOPUS IF 0.85
- [8] George, S., Sudheep Elayidom, M., & Santhanakrishnan, T., "A novel sequence graph representation for searching and retrieving sequences of long text in the domain of information retrieval," *Int. J. Sci. Res. Comput. Sci. , Eng. Inf. Technol.*, TechnoScience Academy, vol. 2, no. 5, pp. 108-113, 2017. ISSN 2456-3307. doi: <https://ijsrcseit.com/CSEIT1724199>. PEER REVIEWED
- [9] • George, S., Elayidom, M. S., & Santhanakrishnan, T., "Measures to Evaluate the Superiority of a Search Engine," *International Journal on Recent and Innovation Trends in Computing and Communication*, Auricle Technologies, vol. 4, no. 2, pp. 214-220, 2016. ISSN 2321-8169 214 - 220. doi: <https://ijritcc.org/index.php/ijritcc/article/download/1794/1794/1769>.
- [10] George, S., Elayidom, M. S., & Santhanakrishnan, T., "A Study on Applicability of Graph Databases in Big Data Analysis," *International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)*, ACE Publications, vol. II, no. Special Issue X, 2015. ISSN 2394-3785. PEER REVIEWED

CONFERENCE PAPERS

- [1] S George, J. T. A., S. Avinash, "Brief Analysis on Product Metrics.," in *National Conference on Software Engineering (NCSOFT)*, National, CUSAT, Kalamassery, August 13-14, Proceedings of the National Conference on Software Engineering, Csidl. Org, 11(3). OTHER
- [2] S. Avinash, S George, J. T. A., "Object Oriented Design Metrics," in *National Conference on Software Engineering (NCSOFT)*, National, CUSAT, Kalamassery, August 13-14, 283-287, Proceedings of the National Conference on Software Engineering, Csidl. Org, 11(3).

BOOKS & CHAPTERS

- [1] Dr. Soumya George, Dr. Jeeva Jose, "Artificial Intelligence" based on fourth semester BCA (Honours), *MG University Curriculum*, 1 ed., Prakash Publications, October 2025, pp. 190.
- [2] Soumya George, "Leveraging Large Language Models for Quantum-Aware Cybersecurity," in *Artificial Intelligence-Powered Cybersecurity: The Future of How Threats Are Detected and Responded.*, IGI Global Scientific Publishing, 2025, pp. 247-276. ISBN 9798337311043.

- [3] Soumya George, "Handbook of Research on AI and Machine Learning Applications in Customer Support and Analytics," in *Sequence Graph-Based Query Auto-Suggestion (SGQAS)*, IGI Global Scientific Publishing, 2023, pp. 362–380. ISBN 9781668471074.
- [4] George, S., & Michael, A., "Sustainable Approaches and Strategies for E-Waste Management and Utilization," in *E-Waste Management System (EMS): An Online Platform to Sell Crafts Made From Tech Waste*, IGI Global Scientific Publishing, 2023, pp. 122–139. ISBN 9781668475751.
- [5] Dr. Soumya George, *Knowledge Graph-based Scholarly Search Engine (KGSSE)*, 1 ed., LAMBERT Academic Publishing, 2022, pp. 162. ISBN 978-6205495506.

CITATION METRICS

29

CITATIONS

4

H-INDEX

18

PUBLICATIONS

Source: Google Scholar

TRAINING & FDPS

TRANSFORMING HIGHER EDUCATION - NEP 2020, NATIONAL CREDIT FRAMEWORK, OBE AND CURRICULUM REFORMS

FDP · Department of Computer Applications · St. Joseph's College of Engineering and Technology, Palai (Autonomous) · Blended

24 November, 2025–28 November, 2025, 5 days

NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC)

FDP · UGC-MMTTC · University of Kerala, Kariavattom · Online

20-09-2025–30-09-2025, 10 days

Inculcating Universal Human Values in Technical Education

FDP · by All India Council for Technical Education (AICTE) · Online

14th April 2025–18th April 2025, 5 days

Recent Advancements in Science, Social Science, and Technology (ICRASST)

Conference attended · IQAC · St. George's College Aruvithura · Blended

3rd December 2024–4th December 2024, 2 days

AI in Research and Academic

FDP · IQAC · SGC Aruvithura · Online

25th November 2024–29th November 2024, 5 days

Data Visualization and Analytics' with Excel, Power BI, Tableau and Generative AI

FDP · PG Department of Computer Applications and IQAC of Marian College Kuttikkanam (Autonomous) in association with ipsr solutions limited and Valin - UK, USA and Canada · Marian College Kuttikkanam (Autonomous) · Online

05 July 2024–11 July 2024, 1 week

Recent Trends in Artificial Intelligence, Machine Learning and Applications

Refresher course · UGC-MMTTC Nehu · Online

18-06-2024–02-07-2024, 2 weeks

Exploring the role of Generative AI in Management and Technology

FDP · Marian Academy of Management Studies, Puthupady, Kothamangalam · Online

21-03-2024–26-03-2024

Data Science

Workshop · MES College, Marampally · Online

7th August 2023–20th August 2023, 2 weeks

Artificial Intelligence as a Magical Tool for Teachers and Researchers: Challenges and Opportunities Seminar · IQAC, Scared Heart College, Thevara · Online	4th August 2023, 1 day
FIP 12 Induction programme · UGC-HRDC Kannur University · Online	28-02-2023-29-03-2023, 1 month
Python FDP · Department of Computer Science, St. Berchmans College, Changanacherry · Online	01 December 2022-23 December 2022, 22 hours
ICT and Internet of Things(IoT) for Creating Smart Learning Environment Refresher course · Post Graduate Department of Physics, St. Georges College Aruvithura · Online	06-12-2021-12-12-2021, 1 week
Applied Research Seminar · Bharata Mata College, Thrikkakara · Online	23/11/2021-24/11/2021
Machine Learning and Its Applications Seminar · Dept. of Computer Science and IQAC, NAM College, Kallikkandy · Online	23-10-2021
NoSQL database MongoDB using Python Workshop · KVM College of Engineering and IT · Online	6th May, 2021-7th May, 2021, 2 days
Exploring Image Processing and Computer Vision using Python Workshop · College of Engineering, Kidangoor · Online	1-3-2021-5-3-2021, 5 days
ATAL FDP on Human Centre Computing FDP · Gauhati University of Science and Technology · Online	15-2-2021-19-2-2021, 5 days
ATAL FDP on Cyber Security FDP · TKM College of Engineering, Kollam · Online	28th December 2020-January 1st 2021, 5 days
ATAL FDP on Internet of Things (IoT) FDP · Indian Institute of Information Technology Kottayam · Online	7-12-2020-11-12-2020, 5 days
Value of IEEE publications in Research and Career Development Seminar · SJ CET Pala · Online	21st August 2020
Deep Learning with Tensorflow Workshop · Division of CSE, School of Engineering, CUSAT	22nd July 2020-24th July 2020
Analysis of Algorithms Seminar · Kings Engineering College · Online	25th June 2020
Recent Trends and Applications of Machine Learning and Deep Learning in IT Seminar · Department of Information Technology, RAIT, Navi Mumbai · Online	25th May 2020-29th May 2020, 5 days
Blockchain Technology FDP · Finland Labs in Association with National Social Summit, IIT Roorkee · Online	18th May 2020-22nd May 2020, 5 days
ML & AI Using Covid-19 Virus Data Analysis FDP · Finland Labs In Association with National Social Summit, IIT Roorkee · Online	16th May 2020-17th May 2020

R training	January 2020
Short-term course · D.K.M. College for Women (Course material provided by Spoken Tutorial Project, IIT Bombay) · Online	
Python 3.4.3 training	January 2020
Short-term course · D.K.M. College for Women (Course material provided by Spoken Tutorial Project, IIT Bombay) · Online	
Glide through Cognitive Computing	December 16, 2019–December 20, 2019, 1 week
FDP · Dept. of Computer Science and Engineering · MA college, Kothamangalam · Offline	
Concepts Coaching	11th March, 2019–13th March, 2019
FDP · ICT Academy of Kerala · SJCTET, Pala	
Introduction to LaTeX	April 16-17, 2015
Workshop · IEEE Antennas and Propagation Society, Kerala Chapter · CUSAT · Offline	
Ensuring Quality in Scientific Research	January 7-8, 2015
Workshop · School of Marine Sciences, CUSAT · Offline	
Indo-Czech Workshop on “Big Data Analytics”	January 4-5, 2015
Workshop · Division of IT, School of Engineering, CUSAT · Offline	
GRAPH ALGORITHMS AND COMPUTER APPLICATIONS	December 8-12, 2014
Workshop · Department of Computer Applications, CUSAT · Offline	
Big Data and Hadoop	22nd to 25th September 2014
Workshop · Division of IT, School of Engineering, CUSAT · Offline	
Agentic AI	05th February–10th February 2026, 1 week
FDP · Dept. of AI and Data Science, MITS from · Online	
Virtual labs for experiential learning	
Seminar · PG Department of Computer Science, Sree Sankara Vidyapeetom College, Valayanchirangara · Online	
Outcome Based Education with Assessment and Evaluation	9th November–16th November 2020, 1 week
FDP · Sahridaya College of Engineering and Technology, Kodakara, Thrissur · Online	
NLP, Web Scraping, Recommendation System using Deep Learning	31st July–10th August 2020
FDP · EduxLabs · Online	
Recent Trends and Advancements in Information Technology	27th July–1st August 2020
FDP · FISAT Angamaly · Online	
Funding Projects, Consultancies and Book Writing	
Seminar · Electronics and Communication Engineering department, Vimal Jyothi Engineering College, Kannur	
Advances in Machine Learning	November 26–November 30, 2018, 5 days
Workshop · Division of IT, School of Engineering, CUSAT · CUSAT · Offline	
Big data analytics in IOT	October 5–October 7, 2017, 3 days
Workshop · Computer science Dept. (DHISHNA) · SOE, CUSAT · Offline	

TALKS & EVENTS

YIP 9.0 Awareness Program	19/08/2026
Coordinator · YIP Cell · SGC Aruvithura	
RAG	30th January 2026
Invited talk · BCA (self-financing) · SGC Aruvithura	

ATAL FDP on “Frontiers of Artificial Intelligence: Theories, Frameworks, and Cutting-Edge Applications” Coordinator · Department of Computer Applications, St. George’s College, Aruvithura · Online · 235	December 1–6, 2025
International Conference on Recent Advancements in Science, Social Science, and Technology (ICRASST) Judge / evaluator · IQAC · St. George’s College, Aruvithura	1-2 December 2025
YIP 8.0 Orientation Program Coordinator · YIP Cell · SGC Aruvithura	13/11/2025
RAG Resource person · Integrated BCA & MCA · SJCT, Palai	November 2025
IIC Impact Lecture Series 11 Coordinator · IIC Cell, St. George’s College, Aruvithura · St. George’s College, Aruvithura	14/3/2024
IIC Impact Lecture Series 1 Coordinator · IIC Cell, St. George’s College, Aruvithura · St. George’s College, Aruvithura	5/2/2024
Information Retrieval Invited talk · BCA (self-financing) · SGC Aruvithura	29th June 2024
International Conference on Recent Advancements in Science, Social Science, and Technology (ICRASST) Judge / evaluator · IQAC · St. George’s College Aruvithura	3rd and 4th December 2024
YIP 6.0 Awareness Program Coordinator · IEDC & YIP Cell · SGC Aruvithura	19/2/2024
Georgian Ideathon Contest Coordinator · IEDC & YIP Cell · SGC Aruvithura	31/10/2023
YIP 5.0 Awareness Program Coordinator · IEDC & YIP Cell · SGC Aruvithura	26/6/2023
Industry Oriented Training Programme for Faculty - Java FDP Coordinator · Dept. of Computer Applications · SGC Aruvithura	12/7/2022-19/7/2022, 26/7/2022
Workshop on PHP Programming Coordinator · Dept. of Computer Applications · SGC Aruvithura	4/7/2022
YIP 4.0 Roadshow- Awareness program Coordinator · IEDC & YIP Cell · SGC Aruvithura	2/2/2022
Online international workshop on “Machine Learning Applications – An industrial perspective Coordinator · Dept. of Computer Science and Applications · SJCT, Pala	11th-16th January, 2021
Cyber Cube-2018 Organiser · Cyber Intelligence Research Laboratory, DCA, CUSAT in association with Kerala Police Academy (KEPA) · DCA, CUSAT	24th April, 2018
National Conference on Indian Language Computing, NCILC -2018 Organiser · Dept. of Computer Applications, CUSAT on · DCA, CUSAT	March 16th-17th, 2018
Cyber Cube-2017 Organiser · Cyber Intelligence Research Laboratory, DCA, CUSAT in association with Kerala Police Academy(KEPA) · DCA, CUSAT	23rd -27th March, 2017

National Conference on Indian Language Computing, NCILC-2017 Organiser · Dept. of Computer Applications · CUSAT	February 17th-18th, 2017
National Conference on Indian Language Computing, NCILC-2015 Organiser · Dept. of Computer Applications · CUSAT	January 17-18, 2015
District level evaluation of the Young Innovator's Programme 6.0 Judge / evaluator · Kerala Development and Innovation Strategic Council(KDISC) · Online	

CERTIFICATIONS

Introduction to Programming in C NPTEL · 12 weeks · Silver badge and one among the top topper 5%	January – March 2023
Innovation Ambassador (IA) training 'Advanced Level' MOE's Innovation cell and AICTE · (Total 15 sessions of 30 contact hours)	16-09-2022
Innovation Ambassador (IA) training 'Foundation Level' MOE's Innovation cell and AICTE · (Total 15 sessions of 30 contact hours)	14-09-2022
Neo4j Certified Professional Neo4j GraphAcademy	2022
Intermediate Cypher Queries Neo4j GraphAcademy	2022
Importing CSV Data into Neo4j Neo4j GraphAcademy	2022
Graph Data Modeling Fundamentals Neo4j GraphAcademy	2022
Neo4j fundamentals Neo4j GraphAcademy	2022
Cypher fundamentals Neo4j GraphAcademy	2022
Introduction to internet of things NPTEL	2020
Cloud computing NPTEL	2020
Data Mining NPTEL	2020
Programming in Java NPTEL	2020

AWARDS & HONOURS

Second Rank , MCA MG University, Kottayam	2010
First Rank , BCA MG University, Kottayam	2007

MEMBERSHIPS

ISTE (The Indian Society for Technical Education) Life Member · Membership no. LM 84918	2011
---	------

Subject expert

October 2024

Board of studies member · Department of Computer Applications, SJCTET
Palai (Autonomous)

9th International Conference on Smart Computing and
Communications (ICSCC 2023)

17-19 August 2023

Reviewer · Muthoot Institute of Technology and Science, Kochi technically
co-sponsored by the IEEE Kerala Section

International Conference on Recent Advancements in
Science, Social Science, and Technology (ICRASST)

St. George's College
Aruvithura

Reviewer · IQAC

LANGUAGES

Malayalam · English · Hindi