

Name : M. Selvanayaki

Designation : Assistant Professor & Head i/c

Department : B.Sc Computer Science with Cyber Security

Qualification : M.Sc., M. Phil., (Ph.D.)

Experience : Teaching -15 Years

Area of Specialization(s): Data Mining

Email (Official ID) : selvim@psgrkcw.ac.in



Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	Chikkanna Government College / Bharathiar University	Pursuing
M.Phil.	Computer Science	PSGR Krishnammal College for Women / Bharathiar University	December 2009
M. Sc.	Computer Science	Tiruppur Kumaran College for Women / Bharathiar University	April 2008
B.Sc.	Computer Science	Tiruppur Kumaran College for Women / Bharathiar University	April 2006

Additional Qualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/Agency Name	Year
Certification	Coursera	Google Certifications in Project Management, Cyber Security	2022
Certification	NPTEL	IoT	

Research Publications (Indexed)

International:

- M. Selvanayaki, "Supervised Learning Approach for Predicting the Quality of cotton using WEKA", in International Journal of Communications in Computer and Information Science, June 2010, 382 – 384, ISSN: 978-3-642-12213-2 Online ISBN 978-3-642-12214-9. (Scopus Indexed Journal).
- M. Harshini, Mrs. L. Sheeba, Mrs. M. Selvanayaki, Anticancer Activity of Catharanthus Roseus and Murraya Koenigh, International Journal of Critical Reviews. ISSN (online):2394 - 5125, Volume 7, Issue 8, 2020 (Scopus Indexed Journal).
- M. Selvanayaki, L.Sheeba, "Online Student Mentoring System", Turkish Journal of Computer and Mathematics Education, ISSN: 1309-4653 Vol.12 No.14 (2021), 1319 – 1324 (Scopus Indexed Journal).

- M.Selvanayaki, “Analysis of Hedychium Flavum Waste Powder as a Potent Heavy Metal Adsorbent”, (2023) Environmental Science and Engineering, Part F272, pp. 113-120. DOI: 10.1007/978-3-031-29597-3_10.

Other Publications: International / National

- M. Selvanayaki, “Study on Machine Learning Techniques using SVM” in International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE), Volume – 6, January 2016, 249 – 252, ISSN (Online) 2278-1021 ISSN (Print) 2319-5940. (UGC Referred Journal).
- M. Selvanayaki, “Fabric Defect Detection – A survey” in CiiT International Journal of Data Mining and Knowledge Engineering, Volume 9 No 9, December 2017, 196 -201, ISSN: 0974- 9683 (UGC Referred Journal).
- M. Selvanayaki, “Study on microbial diversity and genomic analysis of soil bacteria” in International Journal Of Computer Engineering And Applied Sciences, Volume 2, April 2018, 133 – 137, ISSN: 2395-2539 (UGC Referred Journal).
- M. Selvanayaki, “Brain Tumor Segmentation Using Patch Extraction with CNN Algorithm” in IOSR Journal of Engineering, Volume – 2, 2018, 16 – 19, ISSN 2250-3021 (UGC Referred Journal).
- M. Selvanayaki, “A Survey on automatic fabric defect detection using data Mining Classification Algorithm” in International Journal of Management, Technology and Engineering, Volume IX, Issue VI, June 2019, 3345 – 3350, ISSN NO : 2249-7455 (UGC Referred journal).
- M. Selvanayaki, “A Survey: Sensors 4.0 – Smart Sensors and Measurement Technology Enable Industry 4.0” in International Journal of Digital Signal Processing, Vol 13, No 1, ISSN 0974-9705.

Patent

S.No	Name of the Faculty	Title of the Invention	Application No.	Date of Filing	Publication Date
1.	M. Selvanayaki	System and Method for Detecting Lung Cancer using Intelligent Image Pattern Recognition Technique	22/2022	16.05.2022	03.06.2022

Book Published

- Bioperl Programming Language – published by CiiT in 2018. ISBN: 9-788193-708842
- Introduction to Machine Learning with Python published by CiiT in 2022. ISBN: 9789391347079
- Cybersecurity and Forensic Science: Tools, Techniques and Applications published by CiiT in 2025. ISBN: 978-93-6126-192-3
- Crack the C Code for Beginners published by CiiT in 2005. ISBN: 9-789361-267246.

Sequence Published in NCBI Database

SEQUENCE PUBLISHED	ACCESSION NUMBER
Pseudomonas aeruginosa strain SVSPR 16S ribosomal RNA gene	MG905427
Pseudomonas alcaligenes strain CBNRJ 16S ribosomal RNA gene	MN988620
Staphylococcus sp. strain SKVCBNR 16S ribosomal RNA gene	MT126466
Kocuria palustris strain GSCBNR 16S ribosomal RNA gene	MT126465
Acinetobacter baumannii strain SSCBNR 16S ribosomal RNA gene	MT192652
Serratia sp. strain BCA CBNR 16S ribosomal RNA gene, partial sequence	MZ410562

Short Term Course

- Attended AICTE sponsored One week Short Term Training Programme on “Practical Approaches for Next Generation Sequencing Technologies and Data Analysis towards Health Care” organized by Department of Biotechnology, K. S. Rangasamy College of Technology.
- Attended AICTE - ISTE approved Orientation / Refresher Program on “Cyber Security and Ethical hacking” organized by Dayanandha Sagar Academy of Technology & Management, Bangalore.
- Attended Development Training Program “Cyber Security” organized by ISTE and C-DAC Kolkata from 22nd May 2025 to 30th June 2025,

Acted as a Resource Person

- Delivered Guest Lecture on Exploring the Databases UG (Computer Science) & Commerce CA at Sree Venkateswara Arts and Science College, Gobi.
- Delivered Guest Lecture on Data Mining for Computer Science students at AJK College of Arts and Science, Coimbatore.
- Delivered Guest Lecture on Impact of Cryptocurrency in Indian Economy for Computer Science students at Angappa College of Arts and Science, Coimbatore.

Paper Presentation in Conference

International – 15 papers

National – 21 papers

Participation in Workshop

Attended more than 25 Workshops in different emerging technologies

Participation in Faculty Development Programme

Attended more than 40 FDP's on different emerging technologies.

- Attended FDP on “Digital Image Processing & Hands on training in MATLAB” at Sri Venkateswara College of Computer Applications and Management in June 2014.

- Attended FDP on “Bioinformatics in Life Science & Research” at PSGR Krishnammal College for Women in February 2017.
- Attended FDP on “IoT” Through NPTEL.
- Attended FDP on “R Programming” at IIT - Bombay in April 2020.
- Attended FDP on “How to Write Effective case study” at Atmiya University in May 2020.
- Attended 10 days FDP on “Cognitive Intelligence: Foundations & Applications” at National Institute of Technology, Warangal and Vellore Institute of Technology, Chennai in August 2021.
- Attended 10 Days Capacity Building Programme on “Artificial Intelligence and Machine Learning” at NCSTC & Department of Maths, PSGR Krishnammal College for Women in July 2021.
- Attended one week International FDP on “Innovation in Recent Trends in Computing” at JIS University in November 2022.
- Attended one week FDP on “Machine Learning” at EICT Academy - IIT Kanpur in March 2023.
- Attended one month FDP on “Cyber Security” at Cyber Secured India in May 2024.
- Attended one week virtual FDP on “Transforming Education with Artificial Intelligence: A Faculty Development Journey” at KG College of Arts and Science, in July 2024.
- Attended five days National Level Virtual FDP on “Tech-Driven Research: Leveraging AI, IoT and Collaboration for Academic Excellence” by Consortium of Higher Educational Institutions for Research and Development (CHIRD) in September 2024.
- Attended five days virtual FDP on “Empowering Educators: Strengthening Cybersecurity Awareness, Defense and Research” by PSG College of Art and Science in February 2025.
- Attended Seven days virtual E-Symposium on “CyberSecurity” by Sobeit Cyber Security, Netherland in January 2025.
- Attended one day National Level Faculty Development Program on “Cybersecurity 25” by National Cyber Security Standards in January 2025.

Conference / Seminar / Workshop Organized

Organized multiple workshops, guest lectures, and national and international conferences under various themes

Grants

PROJECT PROVIDER	PROJECT TITLE	PRINCIPAL INVESTIGATOR	DURATION	RECOMMENDED BUDGET	STATUS
GRG TRUST-PROJECT	Student Mentoring System	Mrs. M. Selvanayagi, Asst. Professor, BCA	Oct, 2020 to September, 2022	Rs.1 Lakh	Completed
GRG TRUST-PROJECT	PhD Online Web Interface	Mrs. L. Sheeba, Asst. Professor, BCA,	09-11-2020	Rs.70,000/-	Completed

Awards / Honors

Awards/Honors	Agency/Institute	Year of Award
Best Faculty Award	PSGR Krishnammal College for Women	2022 - 2023
Certificate of Appreciation	Lions Club. KCW	2024 – 2025

Contribution

- Board of Studies member in the department.
- DBT Coordinator in the Department and CS Cluster.
- Organized Faculty Development Program, Workshops and Guest Lectures.
- Coursera – Overall Coordinator for College.
- Academic Council Minutes.
- College Calendar.
- DBT and Department Newsletter.