

PROFESSIONAL SUMMARY

I am **15+ years** experienced **Senior Assistant Professor** holding a **PhD** in **CSE**. Proficient in **Data Science**, I thrive in dynamic environments, showcasing exceptional adaptability, flexibility, and effective collaboration within teams. My extensive contributions include over **4 SCI** articles with a highest Impact Factor of 3.6, **32 Scopus** articles, **46 conference** presentations, authorship of **6 technical books**, **8 book chapters**, and 23 journal reviews. With **8 patents** to my name, I have delivered over **11 plenary/keynote lectures**, **1 completed** and 4 ongoing **PhD research Scholars**, and supervised 34 undergraduate projects. Garnering **280+ citations** and boasting an **H-index of 10 (Google Scholar)** and **9 (Scopus)**, I am an editorial board member for 3 SCI Journals. As an editor for ongoing projects at IET Book Chapter and Bentham Science Journal, I actively contribute to shaping scholarly discourse. Engaging in global collaborations, I have established partnerships in the USA, Canada, Egypt, Japan, and Australia, fostering international networks in research and academia.

WORK EXPERIENCE

2020 – current	Senior Assistant Professor	SRM Institute of Science and Technology	Chennai(India)
2019 – 2020	Senior Assistant Professor	RMK College of Engineering and Technology	Chennai(India)
2017 – 2019	Senior Assistant Professor	Rajalakshmi Engineering College	Chennai(India)
2010 – 2017	Assistant Professor	Velammal Engineering College	Chennai(India)
2005 – 2007	Lecturer	Sri Subramanya College of Engineering and Technology	Dindigul (India)

Roles and Responsibilities

- *Teaching students based on curriculum guidelines within subject areas.*
- *Planning, preparing and delivering lessons.*
- *Encouraging student participation in other co-curricular related activities.*
- *Assessing and reporting on the behavior of students.*
- *Ensuring the highest standards of quality and applying the most up-to-date teaching methods.*
- *Taking part in opportunities to boost my own learning and continuous professional development.*
- *Collaborating with parents, support workers, and other professionals to ensure the educational welfare of students who may have special educational needs.*

SKILLS

- **Computer skills:** Programming Languages: C,C++, Java, Python; Front End: JavaScript, HTML, CSS; Back End : Java Server Page, React,Node Js; Databases: SQL, MongoDB; Technology: Machine Learning, Deep Learning; Data Visualization Tools : Cognos,PowerBI, Tableau ; Code Deployment Tools: GitHub, Docker, AWS
- **Technical:** Research Writing, Brochure Designing, Website Development
- **Professional/Social:** Teamwork, Project-Management, Communication, Leadership, Organization, Problem-solving
- **Languages:** English ,Tamil (Proficient) Hindi (Intermediate) French (Elementary)

AWARDS AND ACHIEVEMENTS

- Awarded best paper in IEEE international conference, Sri sai ram Engineering College,2023.
- Consistently received appreciation for achieving high marks (100/100) and delivering quality work in Data Science Certification by University of Waterloo, Canada,2023.
- Received Elite Gold with 96% in NPTEL - Big Data Computing,2023.
- 2 research articles included in United Nations Sustainable Development Goals,2023.
- Awarded first prize for best paper presentation, MNM jain college, 2022.
- Led 7 international webinar sessions with 50+ participants, 4 National level workshops and 1 Industry collaborated bootcamp for multi-disciplinary students across various colleges, 2022-23.
- Trained 100+ students to implement machine learning , deep learning and data visualization projects through Online courses, 2022.
- Organized mini project events that were attended by over 50+ teams, 2019-20.
- Awarded best reviewer for 5th QUESTI scientific conference, 2017.
- Awarded academic topper award with 8.9 CGPA in PG, 2009.
- Life Time Member : ISTE, IEI. Jury Member : RIT TechFest' 18, UberTech '22. Session Chair : IRCICD '23, NCTS '23
- Coordinated national conferences ,department events and Chaired IEEE and CSI student chapter events, 2010-17.

- Coordinated coding contests with hackerearth, Arranged industrial visits to BSNL and Maplesesm, add on courses, 2010-2017.
- Spearheaded a cross-functional team to implement a new ERP system. Designed 4 training workshop programs; led training and technology awareness initiatives that were attended by over 50+ employees in 2 years 2005-07.

EDUCATION

2019 *PhD CSE* Anna University **(Chennai, India)**

Improving performance of Cooperative Communication in Heterogeneous MANET

Phd Dissertation

NS2,TCL

- Constructed four relay selection methods for better cooperative communication
- Analyzed the performance with various metrics and compared with traditional methods

2009 *ME CSE* Dr.Mahalingam College of Engineering and Technology, Anna University

(Coimbatore,India)

Comparison of test suite reduction for web applications

Master Thesis

Java,Oracle

- Collected a test cases with adequate coverage of program functionality
- Conducted an empirical study of comparing the test suite size, program coverage and fault detection capability

2005 *BE CSE* Christian College of Engineering and Technology , Anna University

(Dindigul,India)

Multipurpose Online Web Application

UG Project

HTML,CSS,Java Server Page

- Designed three interactive modules including library store, games store, music store
- Developed a graphical user interface for the user and admin to interact with stores.

PROFESSIONAL CERTIFICATIONS

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| • Foundations of Data Science, University of Waterloo, Canada | 2023 |
| • Enterprise Data Science, IBM,Chennai | 2023 |
| • Artificial Intelligence for Computer Vision and Image Processing,NIT Warangal | 2022 |
| • AI Masterclass using MATLAB, Pantech Solutions, Chennai | 2021 |
| • Digital Teaching Techniques, ICT Academy | 2020 |
| • Big data Analytics, ICT Academy | 2019 |
| • Faculty Enablement Program on Python, Infosys | 2018 |
| • Foundation Program in ICT for Education, IIT Bombay | 2017 |
| • Internet of Things, MIT, Chennai | 2016 |
| • Industry Ready Programming Skills, CTS, Chennai | 2015 |
| • Networking skills, Sansbound Solutions, Chennai | 2014 |
| • How to write for get published in Scientific Journals, Springer,Anna university | 2013 |
| • Advanced Topics in Theoretical Computer Science,Anna university | 2012 |
| • CCNA Exploration, VIT University, Vellore | 2011 |
| • DB2,IBM, Chennai | 2010 |
| • Advanced Developer Technologies, Microsoft | 2009 |

NOTABLE PROJECT WORKS

<https://github.com/skbsangeetha>

- **Marketing Analytics**
Provided a comprehensive summary of key marketing metrics, highlighted high-impact regions for targeted marketing, calculated ROI metrics, and delivered detailed performance analysis across multiple attributes. Integrated interactive tooltips to enhance user experience and quick insight retrieval.
- **Titanic-Tragic Tale**
Investigated passenger groups with varying survival rates, assessing the impact of gender, age, class, and family size on survivability during the Titanic disaster. Engineered additional attributes, managed missing values, and interpreted data trends to understand survival dynamics.
- **Stock Market Temporality Analysis**
Analyzed stock market data by adjusting close prices, resampling for month-end prices, plotting autocorrelation, calculating monthly returns, and examining autocorrelation of returns. Visualized correlations using scatter plot matrices, providing insights into stock market behavior over time.
- **Analysis of Key Attributes**
Identified impactful features influencing house prices in Ames City, Iowa, offering insights for residential construction companies to leverage when building new homes.
- **From Raw EEG to Cognitive Patterns**
Reduced redundancy and noise in EEG data. Employed an LSTM framework to detect user emotions from Electroencephalogram signals, contributing to emotion recognition research.