

CURRICULUM VITAE

SWETHA T

W/O Thribhuvan K.M
SriRampura(P),Kolavanahalli(V),
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CAREER OBJECTIVE

I am a dedicated academician with a passion for fostering critical thinking and practical problem-solving skills in students. My teaching philosophy centers on interactive, student-centric learning that bridges theoretical foundations with real-world applications, particularly in the domain of Computer Science and Engineering.

My research interests include Machine Learning, Data Science, Cyber Security, and Cloud Computing, where I aim to contribute innovative solutions to contemporary technological challenges. I actively pursue interdisciplinary research and encourage students to engage in project-based learning and innovation.

My academic goal is to contribute meaningfully to the academic community through quality teaching, impactful research, and active participation in curriculum development, while continuously enhancing my skills to align with evolving industry and academic trends.

EDUCATION DETAILS

Examinations	Name of the Board/ University	Year of Passing	% of Marks	Division/ Class/Grade	School / College
SSLC (10 th)	ICSE	2004	60%	B	Jyothi English Medium School
PUC	Karnataka Board	2006	83%	First Class	Venkatadri Ind.PU College
Bachelor's degree	VTU	2010	64%	First Class	SJCIT
Master's degree	VTU	2016	78%	Distinction	SJCIT

WORKING EXPERIENCE

- Currently working in SJCIT from July 2016.

Designation	Institution	Date of	
		Joining	Leaving
Lecturer	SJCIT	2010 Aug	2012 Aug
Lecturer	Sha-Shib College of Engineering	2012 Sep	2016 Jan
Assistant Professor	SJCIT	2016 July	Till date

SUBJECTS HANDLED

Category	Subjects
Programming Languages	C, C++, Java, Object-Oriented Programming with Java
Core Computer Science	Operating System, Computer Organization, Design and Analysis of Algorithms (DAA), Database Management System (DBMS), Software Engineering, Discrete Mathematical Structures (DMS), SMS,ERM
Web and Internet Technologies	Web Programming, Cloud Computing, Information and Network Security, Cryptography Network Security & Cyber Law, Storage Area Network
Networking & Systems	Computer Networks, Unix and Shell Programming
Emerging Technologies	Big Data Analytics

RESEARCH

Degrees	Title	University
Ph.D(Open Seminar 2 is Completed)	Implementing an Ensemble learning scheme for enhanced malicious URL and Intrusion detection in cloud system using deep learning techniques.	VTU

INNOVATIVE PEDAGOGICAL APPROACHES ADOPTED

Sl. No.	Innovation	Description / Purpose
1	Blended Learning Approach	Combined traditional teaching with online platforms (e.g., Google Classroom, MS Teams) for improved engagement.
2	Flipped Classroom Model	Shared video lectures and reading materials in advance; classroom time used for problem-solving and discussions.
3	Gamification Techniques	Integrated quizzes tools (e.g., Kahoot, Quizizz) to increase student participation.
4	Use of ICT Tools	Utilized ICT tools like YouTube tutorials, SWAYAM for concept visualization.
5	Project-Based Learning (PBL)	Encouraged students to take up real-time mini and major projects aligned with course outcomes.
6	Peer Teaching & Collaborative Learning	Promoted teamwork and student-led discussions to build deeper understanding and communication skills.
7	Mind Mapping	Mind Mapping is a visual learning technique used to organize information, ideas, or concepts around a central theme or topic
8	Online Certifications	Encouraged students to complete online courses aligned with the syllabus to extend learning beyond the classroom.

PROJECTS

M.Tech: Aura-a platform to achieve the goals of localized and highly scalable computation using IOT based cloud Infrastructure.

BE: Vision Processing for Real-Time 3-D Data Acquisition Based on Coded Structured Light Description.

PAPER PRESENTATIONS

1. Presented a paper entitled "**Aura-IOT Based Cloud Infrastructure**" in the 2nd National Conference On Recent Trends In Computer Science And Information Technology(NCRTCSIT) ie

MANTHANA-2016 in Collaboration with Computer Society of India held at SJC Institute of Technology on 22nd and 23 April 2016, SJCIT.

2. Presented a paper entitled "**Security Group Analysis As A Cloud Service**" in the **National Conference On "Knowledge Discovery in Information Technology and Communication Engineering"** on 29th April 2015 at Brindavan College of Engineering, Bengaluru.

3. Presented a paper entitled "**Advancing Parkinson's Disease Detection and Classification Through Integrated Deep Learning Models**" on 20th -21st September 2024 International Conference on Distributed Systems, Computer Networks and Cybersecurity, SKIT.

4. Presented a paper entitled "**Techniques and Applications of 3D rendering modern Computer Graphics**" in the 1st International Conference RITESH 4.0 on March 26, 2025 held at REVA University.

5. Presented a paper entitled "**Leveraging Transfer Learning for Enhanced Cybersecurity Threat Detection: A Novel Approach For Identifying Anomalies and Attacks**" in 3rd IEEE International Conference on Knowledge Engineering and Communication Systems (ICKECS – 2025), April 28 – 29, 2025

PUBLICATIONS

1. Published a paper on **Detection of illegal parked vehicles** in IJARIT in May-June 2019

2. The paper named "**An Aura A Platform To Achieve The Goals Of Localized An Highly Scalable Computation Using IOT Based Cloud Infrastructure**" published in Volume No 9 Issue 9 , September 2016 edition, International Journal Of Current Research and indexed with the Google Scholar.

3. Published a paper on **Face detection and Recognition by fuzzification.**

4. "**Automated vision based swimming pool surveillance system**" in IRJET on 7-7-2021.

5. "**Detection of Credit Card Fraud Transactions using Machine Learning based Algorithm**" in [IJARSCT](#)

6. **“Comprehensive survey of various machine learning approaches for Intrusion detection system and malicious URL in Cloud computing** “in International Journal of Applied Engineering & Technology.
7. **“Hybrid Machine Learning Approach for Real-Time Malicious URL Detection Using SOM-RMO and RBFN with Tabu Search”** in International Journal of Advanced Computer Science and Applications on September 2024-Q3.
8. **“Intrusion detection system in Cloud Computing using Machine Learning Techniques”** in IJIRSET in 2024.
9. **“Design and develop an ensemble learning scheme to detect the anomaly and malicious URL using deep learning”** in IJRPR in 2024.
10. **”Advancing Parkinson's Disease Detection and Classification Through Integrated Deep Learning Models”** 2024 International Conference on Distributed Systems, Computer Networks and Cybersecurity
11. **” Evaluating the Efficacy of Deep Learning Models in Network Intrusion Detection”** in Journal of Information Systems Engineering and Management in 2025.
12. **” Leveraging Transfer Learning for Enhanced Cybersecurity Threat Detection: A Novel Approach For Identifying Anomalies and Attacks”** 3rd IEEE International Conference on Knowledge Engineering and Communication Systems (ICKECS – 2025), April 28 – 29, 2025

PARTICIPATION IN FDP, ORIENTATION COURSE, REFREASHER COURSE AND WORKSHOPS

SL No	TITLE OF FDP/WORKSHOPS/STTP/MDP	DATE	ORGANISATION/RESOURCE PERSON
1	Workshop on "Agile Technologies"	23rd July 2016	SJCIT in collaboration with Tata Consultancy Services
2	Training on “Android Developer Fundamentals”	28th Aug to 1st Sept 2017	SJCIT

3	Five-day Workshop on “IoT”	13th to 17th Feb 2019	SJCIT / Organizer Not Specified
4	Four-day Workshop on “Python Programming”	2nd to 5th April 2019	Organizer Not Specified
5	Technical Talk on “Cyber Security”	26th Jan 2019	Organizer Not Specified
6	22nd ISTE State Level Faculty Convention	4th February 2020	ISTE
7	STTP on “AI and ML: Basics and Principles”	22nd to 27th March 2020	Organizer Not Specified
8.	FDP on Challenges & opportunities in AI and ML	20 to 24 th July 2020 5days	Bheemanna Khandre Institute of technology
8	Webinar on Deep learning Models and Applications	18 July 2020	Dr.AIT
9	International Webinar on Block chain Technology	11 th August 2020	SJCIT
10	Faculty Development & Self Evaluation	9 and 10 th March 2021	SJCIT/ Bharath Srinivas
11	FDP on Research trends and Challenges in Computer Science	13 to 17 th July 2020 5days	Vidhyavardhaka College
12	Orientation Session-How to plan for startups and Legal and Ethical Steps	20 th March 2021	SVCE,Bangalore/Prof.M.S Satyanarayan
13	Business Model Canvas	10 th March 2021	SJCIT/Dr G.Vinoth
14	FDP on Mobile Application Development	18 th -20 th March 2021	SJCIT/CSE
15	Motivation Session by Entrepreneur	22 nd Dec 2020	Mr.Leo Peter Charles
16	Process of Innovation Development	15 th Dec 2020	Dr.Pushpdanth Jain
	Application of Machine Learning	25 Nov 2020	Raghu Prasad Konandur

17	Cloud computing:Research Perspective	4 th Sep 2020	SJCIT/CSE
18	FDP on Cyber Security	5 th July to 10 July 2021	E & ICT ,KANPUR
19	FDP on Machine learning	19 th July to 24 July 2021	E & ICT ,KANPUR
20	FDP on AL & ML	20-22 Sep 2021	SJCIT
21	Six days hand-on Workshop on "Artificial Intelligence and Machine Learning"	22-27th March 2021	AICTE sponsored SJCIT
22	3-days FDP on Mobile Application Development	18-20th March 2021	SJCIT
23	FDP on Engineering Statistics and Linear Algebra	15 th -17 th April 2021	SJCIT
24	3 days FDP on"Engineering Statistics and Linear Algebra	15 to 17th April 2021	SJCIT
25	Application of IoT in Aerospace Engineering"	27/12/2021 to 31/12/2021	AICTE Training And Learning (ATAL) Academy
26	webinar on data science applications	12 Feb 2022	SJCIT
27	Orientation Program on”High Performance Computing”	12/1/2022 to 19/1/2022	AICTE-ISTE
28	3-Days FEEL Teacher-Communication(FTC)	25-27 May2023	SJCIT
29	6-days FDP on “Internet of things”	18 -24 May 2023	SJCIT
30	FDP on Cloud Infrastructure	21-25 August 2023	AICTE
31	Workshop on Building dynamic Web applications with Angular JS	23 -25 Nov 2023	SJCIT
32	FDP on “Amazon Web Services”	8-10 Jan 2024	Matoshri Institute of Technology, Yeola
33	Workshop on AI-Hardware	15-7-2024 to 05-8-2024	IETE
34	Workshop on Impact of AI	15 th to 17 th July 2024	RCHUB Educational Academy

35	FDP on “Deep Learning”	1Month(June) 2024	SkillDzire
36	AICTE & ATAL FDP on” AL and Security: Current trends and future Research”	20/1/2025 to 25/02/2025	SJCIT(online)
37	Nationl level FDP on “Recent Trends in AL and ML”	3 rd to 8 th Feb,2025	Global Academy of Technology(online)
38	3-Days FEEL Communication English	21,22,and 24 February 2025	CLHRD,SJCIT
39	MDP on “Leadership and Team Building”	28 th Jan to 1 st Feb,2025	MSME Technology Centre,SJCIT
40	FDP on “Synergizing Cyber Security and Ethical Hacking with AL-Driven Intelligence”	12 th to 14 th February 2025	SJCIT

CERTIFICATIONS/COURSES

Sl. No.	Course Title	Platform	Completion Date
1	AWS-DGL-SS-IoT Edge Computing: Introduction to AWS Greengrass	Infosys Springboard	May 4, 2023
2	Introduction to NoSQL Databases	Infosys Springboard	June 12, 2024
3	Programming using Java	Infosys Springboard	June 30, 2024
4	Database Management System Part-1	Infosys Springboard	July 5, 2024
5	Database Management System Part-2	Infosys Springboard	July 5, 2024
6	Data Structures and Algorithms using Java	Infosys Springboard	July 2, 2024
7	Python Essentials – I	Cisco Platform	June 14,2025
8	Introduction to Greenhouse Gas Accounting for IT	Cisco Platform	July 11,2025

BOOK PUBLICATIONS

Published a Book Entitled” Data Science and Machine Learning using Python” under Scientific International Publishing

GUIDED PROJECTS

Sl. No	Project Title	Brief Description / Focus Area
1	Detection of Illegally Parked Vehicle	Identifying unauthorized parking using image processing.
2	Face Detection and Recognition by Fuzzification	Employing fuzzy logic techniques for facial recognition.
3	Automated Vision-Based Surveillance System to Detect Drowning Incidents in Swimming Pools	Real-time drowning detection using computer vision.
4	Detection of Credit Card Fraud Transactions using Machine Learning	Applying ML algorithms to detect fraudulent financial transactions.
6	Intrusion detection system in Cloud Computing Using ML Techniques	Applying ML algorithms to IDS in Cloud computing
7	Design and Develop a Scheme to Detect Anomalies and Malicious URLs Using Deep Learning	Deep learning-based anomaly and malicious URL detection framework.
8	Smart Dustbin for Efficient Household Waste Management	IoT-enabled dustbin system for smart waste segregation and disposal.
9	A Hybrid Deep Learning and Tabu Search Approach for Real-Time Detection and Mitigation of Phishing URLs in Web Traffic	Integrating deep learning with metaheuristics to combat phishing attacks.

PROPOSALS SUBMITTED

Sl. No	Proposal Title	Submitted To / Status	Date / Year
1	AICTE Training and Learning (ATAL) FDP on “AI and Security: Current Trends and Future Research”	AICTE-ATAL (Sanctioned)	Conducted: Jan 2025
2	To Develop and Analyze the Various Existing ML Techniques for ID in Cloud Computing	KSCST (Project Proposal Submitted)	February 16, 2024
3	Smart Dustbin for Efficient Household Waste Management	KSCST (Project Proposal Submitted)	2025

4	Smart Dustbin for Efficient Household Waste Management	SRISHTI 2025 (Abstract Accepted for Book Publication)	2025
5	AICTE Training and Learning (ATAL) FDP on “ ”	AICTE-ATAL	Approved

ACHIEVEMENTS

Resource Person

- Given a Talk on “Operating System” Govt First grade college on 02 Feb 2024
- Resource Person for STTP on”HTML and CSS” from 23rd to 28th September 2024
- Delivered an Augmentation talk on CO in Dec16th 2024.
- Given a Talk on “Operating System” at BGS Polytechnic on 18 Feb 2025

Organizer

- Organizer for the webinar on Building Bots & Bringing them to Life using Conversational AI” on 5 June 2021.
- Organizer for the webinar on “Open Source Tools for Research and Development” on February 5,2025.
- Was Master of Ceremony for 3-Days “Virtual workshop on AI and ML “ in 2022.
- Organized three Days FDP on “Building dynamic Web applications with Angular JS” from 23rd to 25th Nov 2023.
- Organized STTP on”HTML and CSS” from 23rd to 28th September 2024
- Organized STTP in continuation of Sep,2024 STTP on “PHP JAVASCRIPT & JQUERY” 30th Nov 2024
- Coordinated Rangoli Event for 23rd VTU Youth Fest.
- Successfully organized AICTE training and learning ATAL FDP on “AL and Security:Current Trends and Future Research” from 20 to 25 Jan 2025.
- Organized 3 days STTP on “Data –Driven Futures: Mastering MongoDB and Navigating the CSE Landscape” on 24,31 May and June 1 2025.
- Conference coordinator for 3rd IEEE International Conference on Knowledge Engineering and Communication Systems-ICKECS SJCIT.

Awards

Academic

- Awarded for being coordinator for the Event Fine arts in the 23rd VTU Youth Festival “BLISSBEAT” held at SJCIT.
- Awarded for being coordinator in “2nd IEEE International Conference on Knowledge Engineering and Communication System.
- Published a Book Entitled” Data Science and Machine Learning using Python”
- Awarded for being coordinator in “3rd IEEE International Conference on Knowledge Engineering and Communication System.
- Received Best Paper award for 3rd International Conference ICKECS-2025 held at SJCIT

Sports

- Secured First Place in Throw Ball in “BGS Memorial Sports Championship-2021” held at SJCIT on 30th October 2021.
- Secured Second Prize in Tug of war on 75th Independence Day Celebration held at SJCIT on August 15th 2021.
- Secured First Prize in Running-100m on 75th Independence Day Celebration held at SJCIT on August 15th 2021.
- First First Prize in Shot Put on 75th Independence Day Celebration held at SJCIT on August 15th 2021.
- Secured Second Place in Throw Ball held in 2024.
- The Utkarsh Cricket team emerged as winners in the tournament held on 13th April 2025.

Question Paper Setting

Served as a Question Paper Setter for the following institutions:

- Global Academy of Technology, Bengaluru
- Malnad College of Engineering, Hassan

Research Paper Review

Served as a Reviewer for peer-reviewed international conferences in the domain of Computer Science and Engineering.

PROFESSIONAL MEMBERSHIPS

- ☐ Associate Member: The **Institution of Engineers (India)**
- ☐ Member: **Computer Society of India (CSI)**

STRENGTHS

- 1 Perpetually looking to learn & improve on all related matters.
- 2 Ensures to take all areas of improvement in a positive note.
- 3 My Management Skills
- 4 Ability to work under Pressure
- 5 Caring and Communicative
- 6 Cooperativeness
- 7 Ability to work in Groups as well as individually.

PERSONAL PROFILE

Name	:	Swetha T
DOB	:	01-09-1988
Sex	:	Female
Marital Status	:	Married
Nationality	:	Indian
Languages known	:	English, Hindi, Telugu and Kannada
Hobbies	:	Drawing, listening songs, cooking

DECLARATION

I hereby declare that above mentioned particulars are true and correct to the best of my knowledge.

Place: Chickballapur

Swetha T