

CURRICULUM VITAE

Dr. Suraj Rajaram Nalawade

B.E. (I.T.) M. Tech, Ph. D (CSE)

Permanent Address: Sankalp Villa Flat No.- S1 Vanvaswadi, Khed, Tal-Satara, Dist-Satara Pin-415003

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Career Objectives:

To secure a position as a teacher and utilize my dedication to foster quality technical education required for the overall development of engineering aspirants and to promote creativity and high-order thinking skills that increase the performance of the students.

Educational Qualification:

Degree	School/College	University	Year of Passing	% Marks / SGPA
PhD CSE	Pacific University Udaipur, India	Pacific University Udaipur, India	2023-24	
M.Tech (CSE)	MLR Institute, Hyderabad, Andhra Pradesh, India	JNTU	2014-15	73.75
B.E. (IT)	Dr. J. J. Magdum College Of Engineering, Jaysingpur, Maharashtra.	Shivaji University, Kolhapur, Maharashtra.	2012-13	61.40
H.S.C	D.P Bhosale College, Koregaon	Kolhapur Board, Maharashtra.	2006-07	52.83
S.S.C	The Modern English School, Koregaon, Maharashtra.	Kolhapur Board, Maharashtra.	2004-05	67.73

Personal Details:Software Proficiency:

Operating Systems :	Windows 9X/00/XP, Linux
Programming Languages :	C, C++, DS, JAVA, Advanced JAVA, PHP, Python
Databases :	MS-Access, Oracle, Mysql
Web Technologies :	Servlet, JSP.

Job Details:

Teaching Experience : 12 Years 6 Months (working as a HOD) **UGC Approved** at
Yashoda technical Campus, Satara on Dated 8 August 2016

College Name : 2-7-2012 to till date at Yashoda Technical Campus, Faculty of
Engineering, Satara

Designation : Assistant Professor (AI & DS HOD)

Area of Specialization:

1. Automata Theory.
2. Discrete Mathematical Structures.
3. System Programming.
4. Data Structure.
5. Full Stack Development
6. Machine Learning

FDP/STTP:

1. "STTP On "Big Data & Data Analytics" Workshop on 1st April 2016 to 5th April 2016 at Dr. DACOE, Karad, Maharashtra.
2. SF-STTP/FDP on "Emerging Trends on Data Science and Data Security", 02.01.23 to 07.01.23 VPPCOE, Mumbai
3. FDP on "Current Trend in Information Technology Sector", 20.02.23 to 24.02.24 by CSE department YTC, Satara with ISTE
4. SF-STTP/FDP on "Research Grants and Patents", 04.12.23 to 08.12.23 KBP, Satara
5. Webinar on, The Power of Ideas: Intellectual Property Insights 25.04.24 KBP, Satara with Institution's Innovation Council
6. FDP on Empowering Innovations through comprehensive Approaches to Research & Development, 12.08.24 to 17.08.24 Shanti Education Society's AGPIT, Solapur

7. FDP on Data Analysis Using Advanced Excel from 07.10.24 to 11.10.24, BSIET, Kolhapur
8. FDP on Revenue Generation and Readiness Assessment from 12.11.24 to 16.11.24, Resonance Automation, Pune

Guest Lecture Conducted:

1. On SE computer for Discrete Mathematical Structures on 16th Oct 2012. at Satara,
2. College of Engineering & Management Limb, Satara.
3. College of Engineering & Management Limb, Satara.
4. On MSc Computer Science for Theory of Computer Science on 7th March 2013, Sadguru Ghadage Maharaj College, Karad.
5. On SE computer for Discrete Mathematical Structures on 14th Oct 2013, at Satara, College of Engineering & Management Limb, Satara.
6. On SE computer for “Automata Theory” on 15th March 2014.at Karmaveer Bhaurao Patil College Engineering, Satara
7. On SE computer for “Automata Theory” on 20th March 2014.at Satara College Engineering & Management Limb, Satara.
8. On SE computer for Discrete Mathematical Structures on 10th Oct 2015, at Satara College of Engineering & Management Limb, Satara.
9. On SE computer for “Automata Theory” on 5th March 2016.at Satara College of Engineering & Management Limb, Satara, On SY & TY computer for “Automation Software Tester” on 19th March 2022, at Yashavantrao Chavan Institute of Science, Satara
10. On SE & TE E & TC for “Trends in IOT” on 27th April 2022, at J.J. Magdum College of Engineering, Jaysingpur Tal- Shirol Dist- Kolhapur. On SE & TE Computer for “GAP between Education and Industry” on 27th April 2022, at J.J. Magdum College of Engineering, Jaysingpur Tal- Shirol Dist- Kolhapur.On BE Computer for “Automation Testing” on 25th December 2022, at J.J. Magdum College of Engineering, Jaysingpur Tal- Shirol Dist- Kolhapur

Workshop Attended:

1. “Induction Program for Technical Teachers” on 6th October, 2012, at K.B.P. College of Engg. & Poly, Satara, Maharashtra. Secured Remote Paper Delivery “on 24th Nov, 2014 at Sanjay Ghodawat group of institute, Kolhapur, Maharashtra.
2. “Role of Open Source Technologies in IT and its Future” on 5th to 7th February, 2015 by

- Sinhgad Institute of Business Administration and Computer Application (SIBACA), Lonavala, Maharashtra.
3. “HADOOP AND BIG DATA ANALYTICS” Workshop on 28th February 2015 to 1 March 2015 at Rajarambapu Institute of Technology, Sakharle, Maharashtra.
 4. “BIG DATA AND HADOOP” Workshop on 26 Sept.2015 to 27 Sept.2015 at official Zonal center V.P.I.M.S.R., Sangli, Maharashtra.
 5. “STTP on BIG DATA & DATA ANALYTICS” Workshop on 1st April 2016 to 5th April 2016 at Dr. Daulatrao Aher College of Engineering, Karad, Maharashtra.
 6. “Virtual LAB” Workshop on 16th Sept. 2017 at Yashoda Technical Campus, Satara, Maharashtra.
 7. “EMERGING TRENDS ON DATA SCIENCE AND DATA SECURITY” Workshop ISTE on 1st January 2023 to 7th January 2023 at Vasantdada Patil Pratishthan’s College of Engineering and Visual Arts, Mumbai, Maharashtra.
 8. “How to publish the research articles in quality journal” Workshop on 13th February 2023 to 17th February 2023 at Yashoda Technical Campus, Satara, Maharashtra.
 9. “Current Trends in the Information Technology Sector” One-week Faculty Development Program in association with ISTE Faculty Chapter on 20th February 2023 to 24th February 2023 at Yashoda Technical Campus, Satara, Maharashtra.
 10. “Implementation of National Education Policy 2020: Industry Institute Linkage” Two days State Level Workshop in association with Savitribai Phule Pune University on 24th and 25th February 2023 at JSPM’s Rajarshi Shahu College of Engineering, Tathawade Pune, Maharashtra.

Paper Published:

1. “Facilitating Effective User Navigation Through Website Structure Improvement” in International journal of computer engineering & technology (IJCET) in 2014-15
2. “Use of Clustering Machine Learning Algorithms in Fog Computing for Task Scheduling and Resource Allocation” has been published in European Chemical Bulletin (ISSN: 2063-5346), Volume 11, Issue 8, 2022 Date of Publication: - August 2022.
3. “A Comparative Study of Various Classification Machine Learning Algorithms in Fog Computing: Task Scheduling” has been published in Industrial Engineering Journal (ISSN 0970-2555), Volume: 52, Issue 5, No. UGC Care Approved, Group I, Peer Reviewed Journal 4, May: 2023.

Paper Presented:

1. “Effective Navigation Through Website Structure improvement” in the 2nd National conference, CONFLATE-2014” Innovative Management and Technological Tools as Economic Growth Engines in Indian Perspective “on 3rd and 4th November 2014. at Navsahyadri Education Society’s, Naigaon, Pune.
2. Bus Tracking by computing cell tower information on Raspberry Pi” in the International Conference on Global Trends in Signal Processing, Information Computing and Communication (ICSPICC-2016) on Dated 22nd Dec 2016 to 24th Dec 2016 at SSBT's College of Engineering and Technology, Bambhori, Jalgaon.

Patents:

1. “Design and Progress of Reversible Data Hiding for Improved Security in Data Transmissions”, Published Journal No- 39/2023 on dated 29/09/2023
2. “Iot Based Smart Classroom Attendance System in E-Learning Application” Published Journal No- 47/2023, on dated 24/11/2023
3. “Guard Health Monitoring Device” Published Journal No- 47/2023 407910-0 on dated 17/02/2024

Co-Curricular Activities:

1. Worked as an **Exam in Charge** in Yashoda technical campus, Satara 2012-2013 to 2014-15.
2. Worked as an **Online Exam coordinator** in Yashoda technical campus, Satara 2012-2013 to 2014-2015.
3. Worked as a **Presiding Officer** (PO) for GATE 2014 and GATE 2015 Online Exam in Yashoda technical campus, Satara
4. Appointed as a n **Chief Exam-Co-coordinator** for july 2013 of Shivaji University (M.Phil/ Ph.D Entrance) Online Examination.
5. Worked as a **CAP Director** in Yashoda technical campus, Satara for May 2015-2016 Shivaji University Exam.
6. Worked as a **CAP Director** in Yashoda technical campus, Satara for May 2016-2017 Shivaji University Exam.
7. Working as NSS Program Officer 2015-16 to till date (Organized NSS 7-day residential CAMP as well as Visits and other social activity).
8. Working as **Academic coordinator** for 2 years at Yashoda Technical, Campus Satara.

9. Working as **Cultural Head** for 1 year at Yashoda Technical, Campus Satara.
10. Worked as a Judge for the “State Level Project Competition” in Yashoda Technical campus, Satara on 1st Aug 2013.
11. Best Department Award in YTC Campus for Academic Year 2014-15 in Yashoda technical campus, Satara
12. Working as Assistant Professor (**HOD**) for Computer Science and engineering Department from 2/June 2012 to 31 July 2024 at Yashoda Technical, Campus Satara.
13. Currently Working as Assistant Professor (**HOD**) for AI & DS Department from 1/Aug 2024 to till date at Yashoda Technical, Campus Satara.
14. Working as **First Year Admission Incharge** for 1 year (2023-24) at YTC, Satara

Achievements:

1. **Doctorate of Philosophy (Ph. D) CSE** from PACIFIC University, Udaipur **Research Area: IoT- Fog Computing**
2. **UGC Approved** at Yashoda Technical Campus, Satara on 8 August 2016
3. Microsoft Technology Associate Certification.
4. **22 Guest** Lectures at Various College
5. **5 Patent**

Additional Portfolios Handled:

1. NAAC Criteria 1 Departmental Coordinator at Yashoda Technical Campus, Satara
2. YASHOTECHFEST-2K23 National Level Technical Competition Coordinator, at Yashoda Technical Campus, Satara
- 1) UG Paper setter for DBATU, Lonere 2023-24

Professional Membership:

1. Life member of Indian Society for Technical Education (ISTE)
2. Life member of National Digital Library of India
3. Life member of International Association of Engineers

- **Extra Curricular Activity-:**

Exposure	
Extra Curricular Activities:	Worked as a Cultural Head in Yashoda Technical Campus, Satara.2013-14.
	Working as NSS Officer since 2015-16 to 2017-2018
Hobbies:	Old Coin Collection, Stamp Collection

- **Project-:**

B.E. (Information Technology)	
Event	Academic Project
Project Title	Face recognition
Brief: This project is providing the security to the system. The basic idea behind development of this project is providing AUTHENTICATION to the users of different departments in the industry as well as any organization.	

M.Tech (Computer Science & Engineering)	
Event	Academic Project
Project Title	Facilitating Effective User Navigation Through Website Structure Improvement.
Brief: Designing well-structured websites to facilitate effective user navigation has long been a challenge. A primary reason is that the web developers' understanding of how a website should be structured can be considerably different from that of the users. While various methods have been proposed to reline WebPages to improve navigability using user navigation data and addresses how to improve a website without introducing substantial changes. Specifically, we propose a mathematical programming model to improve the user navigation on a website while minimizing alterations to its current structure. on a publicly available real data set indicate that our model not only significantly improves the user navigation with very few changes, but also can be effectively solved.	

Ph. D (Computer Engineering)	
Event	Academic Project
Project Title	SMART FOG – A COLLABORATIVE APPROACH TO SHARE COMPUTATIONAL POWER OF FOG DEVICES FOR FOG COMPUTING IN SMART CITY IoT NETWORK
Brief: This research introduces the "SMART FOG" protocol to address latency in cloud computing and optimize resource sharing among fog devices. Key objectives include analysing existing IoT architectures and protocols, developing the SMART FOG Protocol for task scheduling and fault tolerance, and evaluating its efficiency across processing speed, scheduling, and task allocation. The study highlights the superior performance of specific scheduling	

algorithms, including First-Come-First-Serve for latency optimization and Shortest Job First for minimizing power consumption. Experimental results validate the hypothesis that SMART FOG reduces computational power consumption and improves resource sharing. Classification algorithms were evaluated for task offloading in SMART FOG, with Multiple Layer Perceptron (MLP) achieving the highest accuracy (0.83) and superior metrics across precision, recall, and error minimization, followed by Logistic Regression (0.80). These findings underscore MLP and Logistic Regression as the most effective classifiers for resource allocation in SMART FOG

Declaration

I hereby declare that the particulars given here in are true to the best of my knowledge and belief. If any of this information is found to be false or incomplete I will be responsible for it.

Date –

(Dr. Suraj Rajaram Nalawade)