

CURRICULUM VITAE

SURESH KUMAR H S



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Career Objective

I desire to own the challenging role, actively contribute to departmental and organizational growth through independent and collaborative research, driven by innovation and continuous improvement.

Educational Qualification

Qualification	Year	College	Board/University
Pursuing Ph. D Ph.D. thesis submission anticipated by Aug. / Sep. 2025.			Bangalore University
M.Tech (CSE)	2018	S J C Institute of Technology, Chickballapur, Karnataka	VTU, Belgaum.
BE (CSE)	2013	BMS College of Evening, Bengaluru, Karnataka	VTU, Belgaum.
Diploma (CSE)	2009	S. J. Govt. (Evening) Polytechnic, Bengaluru, Karnataka	DTE
ITI	1998	Sir. M V I T C, Chickballapur	ITI
SSLC	1994	Sir. M V M High School, Chickballapur, Karnataka	KSSE

Experience Summary

Sl. No	Designation	Name of the Organization	Period	
			From	To
1	Assistant Professor	Computer Science and Engineering SJC Institute of Technology	01.03.2022	To till date
2	System Analyst	BGS R&D Centre, SJCIT	01.10.2018	28.02.2022
3	Assistant System Analyst	BGS R&D Centre, SJCIT	01.08.2013	30.09.2018
4	Instructor	Department of Electronics & Comm. Engg. SJCIT	01.02.2010	31.07.2013
5	Mechanic	Department of Electronics & Comm. Engg. SJCIT	16.04.1999	30.01.2010

Academic Experience

- Currently working as Assistant Professor, Computer Science and Engineering Department in SJC Institute of Technology, Chickballapur, from 01.03.2022 to till date.
- Guest Lecturer in Computer Science and Engineering, S. J. Govt. (Evening) Polytechnic, Bengaluru, Karnataka from 2020 – 2022.
- Counselor in IGNOU-BIT Center from 2020 to till date.

Project Proposals

Sl. No.	Title of the Project	Date of Sanction and Duration	Grant Received (in Lakhs)	Funding Agency	PI or Co-PI
1.	Innovative and Effective use of Resources along with Advanced Home Automation System	2021 Ongoing	2.27 Lakhs	NAIN-KBIT	Mentor
2.	Design and development of Novel system for the early detection of Human Heart Failure and Precautionary measures for Life Saving	2022 Ongoing	15 Lakhs	MSME Project	Member
3.	IoT-based Automation System for Efficient Energy Monitoring and Distribution	2024 Submitted	40 Lakhs	VGST	Co. PI

4.	Quantum Supremacy: Unlocking the Next Frontier in High Performance Computing	2024 Submitted	3 Lakhs	ATAL	Coordinator
5.	AI Techniques for Analyzing the Implications of COVID-19 on Comorbidities in Rural Populations	2025 Submitted	20 Lakhs	IKS Samvardhini Yojana	Principal Investigator

R&D Dept. Activities

BGS R&D Center, Chickballapur working on executing the following R&D Projects

Central Government Schemes

- Ministry of Micro, Small & Medium Enterprises, Incubation (MSME)HI : Co-coordinator
- Technology Business Incubation (TBI) - A Scheme for Promotion of Innovation, Rural Industries and Entrepreneurship (*ASPIRE*) : Manager
- Bhabha Atomic Research Centre (BARC), Mumbai : Coordinator
- DST Entrepreneurship Awareness Camp (EAC) : Coordinator
- Pradhan Mantri Kaushal Vikas Yojana (*PMKVY*) : Manager

State Government Schemes

- Dept. of Electronics, IT, BT & S&T (*NAIN*) : Coordinator
- Chief Minister's Kaushalya Karnataka Yojane (*CMKKY*) : Manager

Journal Papers Published

- Suresh Kumar H S, Lavanya V, Krutika I Benoor, Rashmitha K C, Srushti K, “Enhancing COVID-19 Prediction Accuracy with Blockchain Verified Symptom Data and Machine Learning Models”, *Liberte Journal*, Vol. 13, No. 7, PP. 50-61, 2025, doi.org/10.5281/zenodo.15846675. (WOS)
- H S Suresh Kumar, Pushpa C N, Thriveni J, Venugopal K R, “Holistic AI-Based Prediction Model for COVID-19 Drug Efficacy in Patients with Comorbidities”, *SN COMPUT. SCI.* 5, 1122 (2024) (Q2).
- Suresh Kumar H S, Vineeth Raghavan, Harshvardhan H Patil, Pratheeth Adiga, Pushpa C N, Thriveni J, “Improving ICU Resource Allocation through Machine Learning-Based Comorbidity-Aware Admission Prediction”, *Chinese Science Bulletin, Science China Press*, Vol. 69, No. 11, pp.4035-4060, 2024 (Q2).
- Suresh Kumar H S, Aruna P U, Lavanya C N, Abhishek B S, Abhishek, “Analysis of Comorbidities and Their Influence on COVID-19”, *International Journal of*

- Advanced Research in Computer and Communication Engineering*, Vol. 13, No.5, pp. 308-314, 2024.
5. **Suresh Kumar H S**, Akash K N, Arjun Kashyap S, Harsha Vardhan R, Abhilash N G, **“Enhancing COVID-19 Patient Outcomes and Resource Allocation Efficiency Through the Application of a Recursive Classification Model”**, *International Journal of Advanced Research in Computer and Communication Engineering*, Vol. 13, No.5, pp. 471-478, 2024.
 6. Ningappa Uppal, C N Vijaya Kumar, **H S Suresh Kumar**, K C Rakshitha, **“ADM-Road Eye: Advanced Traffic Sign Detection”**, *Journal of Electrical Systems*, Vol. 20, No.5s, pp. 355-365, 2024 **(Q4)**.
 7. Varalakshmi K R, Dr. Vijayakumar C N, **Suresh Kumar H S**, **“Wireless Mesh Networks Employ Adaptive Power and Adaptive Rate Link Scheduling”**, *Semiconductor Optoelectronics*, Vol. 42, No.2, pp. 356-367, 2023 **(Q4)**.
 8. Varalakshmi K R, Dr. Vijayakumar C N, **Suresh Kumar H S**, **“Adaptive PSO- Based Power Scheduling Algorithm in Wireless Mesh Network”**, *Computer Integrated Manufacturing System*, Vol. 29, No.6, pp. 125-139, 2023 **(Q2)**.
 9. **Suresh Kumar H S**, Kavya K, S Shirisha, Sahana S, Sharfunnisa B S, Vandana V M, **“Tenacious Cross-Media Factor Learning for A COVID-19 Patient Severity Presage Using AI Techniques”**, *Gradiva Review Journal*, Vol. 9, No.5, pp. 1663-1674, 2023.
 10. Veena K, **Suresh Kumar H S**, Pushpa C N, Thriveni J, **“An Automated Fertilizer Intimation System using Colorimetry Principle”**, *Compliance Engineering Journal*, Vol. 14, No.4, pp. 31-39, 2023.
 11. Veena K, **Suresh Kumar H S**, Pushpa C N, Thriveni J, **“Smart Agriculture Using Internet of Things: A Survey”**, *International Journal of Creative Research Thoughts*, Vol. 11, No.4, pp. 358-364, 2023.
 12. **Suresh Kumar H S**, Pushpa C N, Thriveni J, Venugopal K R, **“Comorbidities and COVID-19 Pandemic Dynamics: A Review”**, *GIS Science Journal*, Vol. 10, No.3, pp. 1852-1876, 2023.

Conference Papers Published

1. **Suresh Kumar H S**, G Vijay Kumar, R Yashaswini, KP Shreyas, N Vidhya, **“Medicine Recommendation System for Diseases Using Machine Learning”**, *2025 International Conference on Knowledge Engineering and Communication Systems (ICKECS)*. 2025
2. **Suresh Kumar H S**, Vineeth Raghavan, Harshvardhan Hariviththal Patil, Pratheeth

- Adiga, Pushpa C N, Thriveni J, **“Enhancing ICU Admission Prediction for COVID-19 Patients using Decision Trees”**, *2024 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)*, 2024.
3. **Suresh Kumar H S**, Pushpa C N, Thriveni J, KR Venugopal, **“Holistic Prediction Model for Analyzing COVID-19 Severity in Patients with Comorbidities using Machine Learning”**, *2024 IEEE Recent Advances in Intelligent Computational Systems (RAICS)*, 2024.
 4. **Suresh Kumar H S**, Preethi N, Pushpa C N, Thriveni J, Venugopal K R, **“DeEffNet: A CNN Model for Optimizing the Image Classification of Comorbid Patients”**, *International Conference on Recent Trends in Machine Learning, IOT, Smart Cities & Applications*, pp. 741-750. Singapore: Springer Nature, Singapore, 2023.
 5. **Suresh Kumar H S**, S Bhoomika, Pushpa C N, Thriveni J, Venugopal K R, **“MobNetCov19: Detection of COVID-19 Using MobileNetV2 Architecture for Multi-Mode Images”**, *International Conference on Computational Sciences and Sustainable Technologies*, pp. 452-463. Springer Nature Switzerland, 2023.

Patent

1. **Suresh Kumar H S**, Dr. Pushpa C N, Veena K, and Yamuna R, filed a design patent entitled **“Feeding Stand for Silkworms”**. **Application No.:** 465618-001.
2. **Suresh Kumar H S**, Kiran Kumar P N, Dhanushree A N, Bhavya R A, Suman, and Deepthi N, filed and published a patent entitled **“A Machine Learning System for Disease-Specific Medicine Recommendations”**. **Application No.:** 202541064427.
3. **Suresh Kumar H S**, Pradeepkumar G M, Krishna Sagar Desai, Girish B G, Gavina C G, and Dr. Murthy S V N, filed and published a patent entitled **“Alert Vitals as IoT-Based System for Real-Time Monitoring of Fatigue and Vital Health Metrics**. **Application No.:** 202541057982.
4. Vismay C V, Kumar D, Ningappa Uppal, **H S Suresh Kumar**, C N Vijaya Kumar, Dr. Mamatha M, Tejashwini P S, filed and published a patent entitled **“Comorbidity Severity Prediction System and Method by Using Multimodal AI Techniques”**. **Application No.:** 202441095139.
5. Pushpa C N, Thriveni J, **Suresh Kumar H S**, filed and published a patent entitled **“Web Page Recommendation System Using Radial Basis Neural Network Technique”**. **Application No.:** 202441091509.
6. Mamatha N, Dr. Ramesh H R, Arpita Banik, Arpitha T, Dr. Venugopal B T, **Suresh Kumar H S**, filed, published and applied for an examination patent entitled **“A System and Method for Common Mode Voltage and Total Harmonic Distortion Reduction**

in Three-Phase 5-Level Asymmetrical Inverter FED Induction Motor”.

a. **Application No.:** 202441058675.

7. **Suresh Kumar H S**, Pushpa C N, Thriveni J, Pradeep Kumar G M, filed, published, and applied for an examination patent entitled **“A System and Method for Detecting Health Condition in Comorbidity Person Through Stacking and Fusion Technique”.**

a. **Application No.:**202441043206.

8. Ningappa Uppal, C N Vijaya Kumar, **H S Suresh Kumar**, Krupa R Dev M, filed and published a patent entitled **“FMCW Radar System and Method for Detecting Speed Humps on a Road”.** **Application No.:** 202441031835.
9. **Suresh Kumar H S**, Veena K, Pushpa C N, Thriveni J, filed and published a patent entitled **“A System and Method for Assessing an Effectiveness of Machine Learning Model in Detecting Chronic Kidney Disease”.** **Application No.:** 202341029951.

Subjects Handled

Computer Networks and Security, Internet of Things, Operating Systems, Green Computing, Cloud Computing, Blockchain Technology, LaTeX.

Resource person for FDP / Workshops / Expert Talk

1. One day Workshop on **“Technical Writing Using LaTeX”** at the **Akash Institute of Engineering and Technology, Deanahalli** on 18th March 2025.
2. 3 days Workshop on **“Research Methodology”** at the **Kishkinda University, Ballari** from 13th to 15th February 2025.
3. 5 days FDP on **“Documentation and Article Writing using Overleaf-LaTeX”** at the **School of Computing & Information Technology, Reva University** from 11th to 13th July 2024.
4. Three-Day Workshop on **“Technical Writing using LaTeX”** at **Kalpataru Institute of Technology, Tiptur** from 27th to 29th June 2024.
5. Three-Day FDP on **“Technical Writing using LaTeX”** at **SJC Institute of Technology, Chickballapur** from 7th to 9th May 2024.
6. 6-days Teacher’s awareness program on Emerging Technologies entitled **“Laser Cutting and Engraver-AICTE IDEA LAB”** at Idea Lab, **Chickballapur** from 15th - 20th May 2023.
7. 3-day workshop on **“Deep Drive into Python Libraries with Application Projects”** **SJC Institute of Technology, Chickballapur** from 12th - 14th June 2023 for 4th

semester students.

8. Skill enrichment program and gave a talk on **“Microsoft Office”** for Non-Teaching staff at **SJC Institute of Technology, Chickballapur** on 11th August 2022.

FDPs, Seminars, and Workshops Attended

1. AICTE Training and Learning (ATAL) Academy FDP on **“AI-Driven Medical Image Fusion Analysis and Disease Prediction in Healthcare”** at **Rajeev Institute of Technology, Hassan, Karnataka** from 14th to 19th July 2025.
2. One month **“Faculty Induction Programme”**, organized by **Shri Mata Vaishno Devi University, Kakryal, Katra, J&K** from 2nd June -30th June 2025 in association with **UGC-Malaviya Mission Teacher Training Centre-SMVDU under the Guru- Dakshta**
3. 3 Days Learning and Development Intervention **“FEEL Communicative English”** organized by **S J C Institute of Technology** from 21st February 2025 to 24th February 2025 in association with **College for Leadership and HRD, Mangaluru, Karnataka.**
4. 6 Days online AICTE Training and Learning (ATAL) Academy Faculty Development Program on **“AI and Security: Current Trends and Future Research”** at **S J C Institute of Technology** from 20th January 2025 to 25th January 2025.
5. 5 Days Online National Level FDP **“AI in Cyber Security: Securing the digital future”**, **Lakireddy Bali Reddy College of Engineering (Autonomous), Mylavaram, AP 521230**, from 9th to 13th December 2024.
6. 5 Days online FDP on **“DevOps”**, **VVCE, Mysore**, from 04th to 09th November 2024.
7. A 3-Day workshop on **“Quantum Information & Advance Computing - Modern Edge with Industrial Alignments”** organized by **Amity School of Engineering and Technology** from 1st to 3rd August 2024.
8. 7 Days online FDP on **“Latest Trend and technologies in Software Engineering: An Industry Perspective”**, **Christ University, Bengaluru**, from 20th to 27th January 2024.
9. AICTE Training and Learning (ATAL) Academy FDP on **“Quantum Machine Learning: Bridging the Gap Between Quantum Computing and AI”** at **Nitte Meenakshi Institute of Technology** from 8th to 13th January 2024.

10. One Week FDP on **“Network Security”** K-tech Centre of Excellence in Cyber Security (CySecK), KSCST, SID, Indian Institute of Science, Bengaluru – 560012 **IISc Bangalore at IISc Challkere campus** from 24th to 29th July 2023.
11. One Week online FDP on **“Introduction to Internet of Things (IoT)”** at AICTE–**VTU, VTU-RC, Muddenahalli**, from 17th to 21st, April 2023.
12. 5 Days online FDP on **“Deep Learning and Its Applications”**, at **KIT, Tiptur**, from 6th to 10th March 2023
13. 5 Days Online FDP on **“Mathematics for Data Science”**, Acharya Institute of Technology, Bengaluru, from 9th to 13th May 2022.
14. Fine Tuning of **“NEP Compliance Syllabus – Disciplines under CSE Board of VTU”**, at **SJC Institute of Technology, Chickballapur**, 20th April 2022.
15. One Week Online Faculty Development Program on **“e-Governance Initiatives Program”**, at Bangalore Institute of Technology, Bengaluru 18th to 22nd April 2022.
16. 10th IEEE International Conference on **“Advanced Networks and Telecommunication Systems (ANTS 2016)”**, 6th to 9th November 2016 at **IISc, Bengaluru**.

Certification Courses

- Completed certification course entitled **“Learn Complete Python in Simple Way”** in UDEMY of 114 hours duration.
- Completed certification course entitled **“Networking Basics”** in CISCO Network Academy.
- Completed certification course entitled **“Continuous Integration and Delivery – DevOps”** in Infosys Springboard, on July 19, 2024.

Professional bodies - Membership

- IEI (AM188730)
- IEEE Membership (98199191)

Institutional/Departmental Responsibilities

- Department Placement Coordinator
- In-charge CTO-NCC
- Technical Seminar Coordinator
- Time Table Coordinator
- Class Teacher

- Mentor
- Alumni Coordinator
- Technotsava Coordinator
- Coordinator IEEE Computer Society

Researcher Identifiers

Google Scholar : <https://scholar.google.com/citations?user=To0NCgcAAAAJ&hl=en>

ORCID ID : <https://orcid.org/0009-0002-4393-5618>

Scopus ID : <https://www.scopus.com/authid/detail.uri?authorId=58900621700>

Research Gate ID : Suresh-H-S-2

Vidwan ID : 607304

Personal Details

Name : Mr. Suresh Kumar H S

Date of Birth : 12-June-1978

Nationality : Indian

Languages known : English, Kannada, Telugu, Hindi.

Residence Address : #105, SLV Vaibhava Apartment, Opp Big Market, 6th Main,
Vinayakanagar, Bagaluru Cross, Yelehanka, Bengaluru – 560064.

Permanent Address : #122, Harobande, Manchanabele, Chickballapur – 562101.

Declaration

I do hereby declare that the particulars and facts stated here above are true, correct and complete to the best of my knowledge.

Date: 02.08.2025

Place: Bengaluru



(Suresh Kumar H S)