

Curriculum Vitae

Mr. Santhosh SG,

B.Sc., M.C. A., Ph.D. (Pursuing)

Associate Professor of Master of Computer Applications

Dept of Master of Computer Applications.

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CAREER OBJECTIVE:

I am seeking a challenging position with a reputed organization that is rapidly expanding, adopting and offers good advancement potential in academics, research and development.

PERSONAL INFORMATION

Name	: Santhosh SG
Designation	: Associate Professor of Master of Computer Applications
Mailing Address	: Mr. Santhosh SG Associate Professor Dept of MCA, J N N College of Engineering Shimoga-Karnataka-577204
Residence Address	: Mr. Santhosh SG C/O Late K. Gopal Rao, "Lakshmi Nilya" Main Road, Bommanakatte, Shimoga, Karnataka- 5 7 7 2 0 4
Date of Birth	: 21 st Jan-1973
Languages known	: English, Hindi, Kannada.

EDUCATIONAL QUALIFICATION

- ❖ **Ph.D.** (Pursuing) I am currently a Research Scholar at Srinivas University. My research primarily focuses on Machine Learning, Artificial Intelligence, and Bilingual Document Image Processing, with a particular interest in developing optimized frameworks for real-time adaptability in document classification.
- ❖ **M.C.A.**, I completed my Master of Computer Applications (MCA) in 1998 from Kuvempu University. Since then, I have been continuously enhancing my knowledge and expertise in the field of computer science, software development, and emerging technologies.
- ❖ **B.Sc.** (Computer Science), Kuvempu University, March/April 1994-95

TEACHING EXPERIENCE AND RESEARCH EXPERIENCE

Teaching Experience:

- Worked as **Associate Professor** of Master of Computer Applications, Jawaharlal Nehru New College of Engineering, Shimoga, Karnataka from 04.09.2011 to till date,
- Worked as **Assistant. Professor** of Master of Computer Applications, Jawaharlal Nehru New College of Engineering, Shimoga, Karnataka from 06.08.2007 to 04.09.2011,
- Worked as a **Lecturer** of Master of Computer Applications, Jawaharlal Nehru New College of Engineering, Shimoga, Karnataka from 06.10.1999 to 05.08.2007,

Research experience:

- Research Scholar at Srinivas University (since 2023): Actively engaged in advanced research in Machine Learning, Artificial Intelligence, and Bilingual Document Image Processing.
- Focused Research Area: Working on developing optimized frameworks for real-time adaptability in bilingual document classification, with emphasis on OCR, text extraction, and classification techniques.
- Publications & Contributions: Published research papers in reputed journals, contributing to the fields of document image processing, machine learning models, and intelligent systems.
- Broader Interests: Passionate about applying AI and Data Science to solve real-world challenges, with applications in healthcare, intelligent systems, and emerging technologies.

Research Area of Interest:

- Image Processing, Computer Vision, Image Data Compression,

ACHIEVEMENTS

- 🏆 Real-Time Text Extraction and Classification from Bilingual Road Signboards Using OCR Engines – Published in the International Journal of Intelligent Systems and Applications in Engineering (IJISAE), a Q3-ranked journal, November 2024.

INTERNATIONAL/NATIONAL CONFERENCE/WORKSHOP/SEMINAR PARTICIPATED

INTERNATIONAL PUBLICATIONS

1. **Enhancing Machine Learning Methods for Robust Real-Time Text Classification of Bilingual Documents** – International Journal of Innovative Research in Technology (IJIRT), UGC Indexed, July 29, 2025.
2. **Optimization & Performance Analysis of the Minimum Cost Parent Selection Algorithm, Fuzzy-Based Dynamic Slot Allocation, Emergency Slot Handling Method, and Interference Reduction-Based Channel Access Method of IoT-Integrated Wireless Body Area Networks for Healthcare Systems** – International Journal of Innovative Research in Technology (IJIRT), UGC Indexed, July 24, 2025.
3. **Real-Time Text Extraction and Classification from Bilingual Road Signboards Using OCR Engines** – International Journal of Intelligent Systems and Applications in Engineering (IJISAE), Scopus Indexed (**Q3**), November 26, 2024.

4. **A Survey on Bilingual Answer Script Extraction from Low-Resolution Images** – International Journal of Multidisciplinary in Engineering in Current Research (IJMEC), July 24, 2024.
5. **Facial Expression Based Smart Music Player Using Machine Learning** – International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), July 29, 2023.
6. **A Data Analytics Strategy to the Underground Economy of Cybercrime** – International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), July 28, 2023.
7. **Python Convolutional Neural Network Towards Pneumonia Detection** – International Journal of Engineering Applied Sciences and Technology (IJEAST), June 30, 2022.
8. **ECG Heart Beat Analysis, Visualization & Classifications** – International Journal of Combined Research & Development (IJCRD), June 30, 2022.
9. **Signature-Deployed Malware Identification using Python** – International Journal of Combined Research & Development (IJCRD), June 30, 2022.
10. **Detection of Malaria Using Image Processing and Machine Learning** – International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), June 28, 2022.

Journal Publications as Co-Author

Santhosh S G. (Year). *A Relative Study on Bitcoin Mining*. **Imperial Journal of Interdisciplinary Research (IJIR)**, Vol. 3, Issue 5. Available at: <http://www.onlinejournal.in/IJIRV3I5/307.pdf>.

Conference Presentations

1. **Santhosh S. G.** (2025, August 21). *Enhancing Machine Learning Methods for Robust Real-Time Classification of Bilingual Documents*. **TechHorizon 2025: Advancing Frontiers in Computer Science & Information Technology**, Srinivas University, Mangalore. [DOI: <https://doi.org/10.5281/zenodo.16918955>] (National Conference, Online).
2. **Santhosh S. G.** (2024, June 29). *Efficient Modern Tool for Developing Advanced Algorithms for AI-Enhanced Education System – A Review*. **TechHorizon 2024: Advancing Frontiers in Computer Science & Information Technology**, Srinivas University, Mangalore. [DOI: <https://doi.org/10.5281/zenodo.13348239>] (National Conference, Online).
3. **Santhosh S. G.** (2007, February 22). *Development of Simulation & Animation Techniques for Manufacturing Process*. **The 19th International Conference of the Jangjeon Mathematical Society**, Central College Campus, Bangalore. (International Conference, Offline).
4. **Santhosh S. G.** (2007, February 9). *Recent Development in Lean Manufacturing Enterprises. Development of Advanced Composite Components in Aerospace & Automobile Applications*, BIET-Davangere. (National Conference, Offline).
5. **Santhosh S. G.** (2007, February 9). *Development of Methods & Implementation of Total Quality Management in Manufacturing. Development of Advanced Composite Components in Aerospace & Automobile Applications*, BIET-Davangere. (National Conference, Offline).
6. **Santhosh S. G.** (2007, February 9). *Development of JIT Concept for Cellular Manufacturing. Development of Advanced Composite Components in Aerospace & Automobile Applications*, BIET-Davangere. (National Conference, Offline).

Events Conducted

- **Santhosh S. G.** (2023, April 14). *Guest Lecture on "A Basic Understanding of the Different Components of an Operating System (OS)"*.

Certification Courses

1. **NPTEL** – *Research Methodology* (05 Feb 2024 – 21 Apr 2024)
2. **Infosys Springboard** – *Basics of Python* (19 Jan 2023)
3. **Coursera** – *Machine Learning Pipelines with Azure ML Studio* (03 Aug 2022 – 05 Aug 2022)
4. **Coursera** – *Linear Regression with NumPy and Python* (02 Aug 2022 – 05 Aug 2022)
5. **TURNIP** – *SQL for Business Analyst Course* (21 Jul 2022 – 04 Aug 2022)
6. **TURNIP** – *Microsoft .NET* (08 Aug 2006 – 12 Aug 2006)
7. **Advanced Computer Graphics Programming & Graphical User Interface Using Qt Library and OpenGL on Linux Platform** (05 Apr 2003 – 12 Apr 2003)
8. **RedHat Linux 7.2** (26 Aug 2002 – 07 Sep 2002)
9. **Visual Basic** (01 Jul 1997 – 31 Aug 1997)

Expert Talks Delivered

1. **MCA PGCET Training 2022** – *Seminar*, JNNCE-MCA, 08–10 Nov 2022. Sponsored by **JNNCE**.
2. **Cyber Security in Industry** – *Webinar*, Online Mode, 06 Jun 2022. Sponsored by **Mentostar**.
3. **AI Implementation in Drones** – *Webinar*, Online Mode, 15 Dec 2021. Sponsored by **Aeronuts**.

Outside World Interaction

1. **Board of Examiners (BOE) Member**, BIET, DVG, 24 Mar 2024 – 04 Aug 2025.
2. **Session Chair**, VTU Conference at JNNCE, 15 Jul 2024.
3. **BOE Member**, Visvesvaraya Technological University (VTU), 01 Aug 2020 – 29 Mar 2021.
4. **BOE Member**, Visvesvaraya Technological University (VTU), 01 Jan 2018 – 31 Dec 2019.

Workshops / FDPs / Seminars / Conferences Attended

1. **NEP-2020 Orientation & Sensitization Programme** – FDP, Sri Guru Tegh Bahadure Khalsa College, University of Delhi (Online), 17–27 Jun 2025. Sponsored by **UGC**.
2. **Exploring NLP Applications in AI & ML (The Future of Text)** – FDP, Pantech Learning (Online), 23–28 Dec 2024.
3. **Research Proposal Writing and Patent Filing** – Seminar, JNNCE, ISE Dept, 09 Nov 2024.
4. **Doing Doctoral-Level Research** – Webinar, Srinivas University, Mangalore, 16 Jan – 04 Jul 2024. Sponsored by **SU**.
5. **Internet of Things and Its Applications** – FDP, SJMIT, Chitradurga, 16–20 Oct 2023.
6. **Research & Publication Ethics & Strategies** – FDP, Srinivas University, Mangalore, 09–13 Oct 2023.
7. **Python Basic** – Webinar (Online), 09 Sep 2023.
8. **Orientation Workshop on NBA Accreditation** – FDP, MCA Dept, JNNCE, 06–08 Jan 2023.
9. **Data Science and Machine Learning – Academic & Research Perspectives** – FDP, New Horizon College of Engineering, Bangalore, 17–23 Nov 2022. Sponsored by **CSI**.

10. **Image & Statistical Analysis using Open Source Tools** – Webinar, The National Institute of Engineering, Mysore, 20 Jul 2022.
11. **Application of IoT in Aerospace Engineering** – FDP, Visvesvaraya Technological University, 25–29 Oct 2021. Sponsored by **AICTE**.
12. **AI in Real Life** – FDP, PESIT-M, Shimoga, 30 Aug – 07 Sep 2021. Sponsored by **IEEE**.
13. **Mobile Application Development with Kotlin** – FDP, JNN College of Engineering, Shivamogga, 14–16 May 2021.
14. **AICTE Training and Learning (ATAL) Academy** – FDP, JNN College of Engineering, Shivamogga, 01–05 Feb 2021. Sponsored by **AICTE**.
15. **Application Development on Machine Learning and Artificial Intelligence** – FDP, PES Institute of Technology and Management, 24–28 Aug 2020. Sponsored by **ISTE**.
16. **Mobi-Tech 2020** – Webinar, JNN College of Engineering, 06–07 Aug 2020.
17. **Patent Protection for Innovation Driven Educational Institution** – Webinar, Ms. Mansi Chaudhry, The Frontiers Legal, 28 Jul 2020.
18. **Cyber Security** – National Webinar, JNN College of Engineering, 27 Jul 2020.
19. **Programming in C** – Webinar, Mandsaur University, 25–26 Jun 2020.
20. **Cyber Forensics and the Current Challenges** – Webinar, CRESCENT, Dept of IS&E, 13 Jun 2020.
21. **Intellectual Property Right** – Webinar, ATAL Incubation Centre, Jyothy Institute of Technology Foundation, 13 Jun 2020.
22. **Adobe Captivate 9 (Foundation)** – Webinar, Studysection.com, 05 May 2020.
23. **COVID-19 General Awareness Quiz** – Symposium, Davangere University, Karnataka, 26 Apr 2020.
24. **Necessity of AI & Data Science from College to Corporate** – Webinar, Global Institute of Management Sciences, Bangalore, 06 Mar 2020.
25. **International Conference on Multimedia Processing, Communication & Information Technology** – Conference, JNNCE, Shimoga, 08–09 Jun 2018. Sponsored by **IEAE**.
26. **National Conference on Computational & Soft Computing** – Conference, JNNCE, Shimoga, 14–15 Dec 2017. Sponsored by **ISTE**.
27. **Digital System Design using VHDL** – FDP, JNNCE, Shimoga, 04–12 Mar 2005. Sponsored by **ISTE**.
28. **International Conference on Human Machine Interface (ICHMI)** – Conference, J. N. Tata Auditorium, IISc Bangalore, 20–23 Dec 2004. Sponsored by **Kuvempu University & MIJ Touch Lab, USA**.
29. **International Conference on Software Agent** – Conference, BIET, Davangere, 05–06 Sep 2003. Sponsored by **VTU**.
30. **Teaching Methodologies and Communication Skills** – FDP, JNNCE, Shimoga, 03–04 May 2003.

Professional Bodies

- **Life Member (LM 33571), Indian Society for Technical Education (ISTE)** – Since 12 Jan 2002 (Lifetime Membership).

Subject Taught PG

- ❖ Operating Systems (OS),
- ❖ Web Programming,
- ❖ Software Engineering,
- ❖ Database Management Systems
- ❖ Advance Web Technologies
- ❖ Advance Java Programing
- ❖ Mobile Applications

Roles and Responsibilities

Department Level

- **Director, MCA Department (2018–2020)** – Provided academic and administrative leadership, overseeing curriculum development, faculty coordination, and student engagement.
- **IQAC and NAAC Coordinator** – Coordinating quality assurance initiatives and accreditation activities.
- **AICTE Coordinator** – Managing compliance, approvals, and reporting for AICTE-related activities.

College Level

- **Photography Committee** – Member – Supporting documentation and event coverage.
- **Sports Committee – Member** – Assisting in organizing and managing sports events and activities.

I hereby declare that the information provided is true to the best of my knowledge and belief.

Place:

Date:

Signature
(Mr. Santhosh SG)