

RESUME

Dr. Jahnavi S



Mob: +91 9449113282

+91 9739488848

Email: jahnavishankar.s@gmail.com

Objective:

Inculcating organizational values and contributing qualitatively to achieve organizational goals and in the process add value to myself and grow along with the organization.

Academy Exposure:

- Currently working as Assistant Professor in AIML Department, BMS college of Engineering from January 17th 2024 to Till Date.
- Worked as Assistant professor in CSE department, Dayananda Sagar Academy of Technology & Management from August 4th 2014 to December 15th 2024.

Responsibilities:

- Board of Studies(BOS) member
- Board of Examiner (BOE) member
- Department Audit Committee member
- Deperatment Advisroy member
- ERP Coordinator
- FDP coordinator on Next-Generation Computing: Convergence of Quantum Technologies, Ai, and Quantum Machine Learning” from Dept. of AIML in Association with IEEE Computer Society.
- Coordinator of FDP on Teaching pedagogy methods, Best Practices at the Institute Level.
- Handled Embedded Computing Systems, Software Architecture, Storage Area Networks Subjects
- Handled Computer Programming Lab, DBMS Lab.
- Guided projects in image processing domain and IOT.
- NAAC Criteria 1 Head and NBA Criteria 5 Head (for 2 years)

Has performed as a Main coordinator for organizing FDP, Department Workshop Coordinator, Internship Coordinator, Placement Coordinator.

Patent Details:

1. Ms.Nagashree B A, Ms.Sindhu R Kashyap, Dr.Jahnavi S, REAL-TIME MONITORING SYSTEM FOR TRACKING STUDENTS' STRESS AND ATTENTION LEVELS USING ARTIFICIAL INTELLIGENCE BANDS, Application No.202441017827 A,Indian Patent Office Journal Number in **2024**.

2. Jahnavi S and Dr. C Nandini ,ARTIFICIAL INTELLIGENCE RULE BASED VISUAL CRYPTO-STEAGANOGRAPHY METHOD FOR SECURE DATA COMMUNICATION IN IOT SYSTEM USING BLOCKCHAIN TECHNOLOGY,09/07/**2021**,App.No.202141028988 A, Indian Patent Office Journal Number.

3. Dr. C Nandini and Jahnavi S, QUANTUM VISUAL CRYPTOGRAPHY WITH MULTIMODAL BASED BIOMETRIC ENCRYPTION SYSTEM FOR DATA SECURITY IN - IOT SYSTEM,(May 2020). Indian Patent Office Journal Number 20/2020, Application No.202041011861 A. **(GRANTED 2024)**.

Key Roles Performed:

Consultancy:

- SDP and Consultancy Activity titled "Data to Insights through Artificial Intelligence, Machine Learning, and the power of Analytics" from 10th to 14th February 2025 under B.S.N. Centre of Excellence to Ai & DS students of SJCIT.
- Consultancy work of Rs. 66,760 /- for Website Design has been paid to the Department of CSE headed by Dr. Nandini.C and Jahnavi S, towards Guiding in the consultancy project work.
- Technical session chair in the National Conference on Recent Innovations in Engineering(NCRIE-2025) organized by K.S. Institute of Technology on December 2025.

Reviewer:

- IEEE International Conference on Artificial Intelligence and Data Engineering (AIDE-2025) held from February 06 to 07 , 2025 at NMAM Institute of Technology, NITTE.
- Reviewer for Cognitive Computation, Springer Nature, in 2025.
- Reviewer for The Journal of Supercomputing, Springer Nature, in 2025.
- 2nd IEEE International Conference on Recent Advances in Information Technology for Sustainable Development (ICRAIS 2024), held on 6th & 7 November 2024, organized by the Department of Information & Communication Technology, Manipal Institute of Technology.
- 8th IEEE International Conference on Computational Systems & Information Technology for Sustainable Solutions (CSITSS), held from 7th to 9th November, 2024.
- IEEE International Conference on DATA ENGINEERING AND COMMUNICATION SYSTEMS (ICDECS), March 22-23, 2024, Jointly organised by Depts. of CSE, ISE, CSE (AI&ML), CSE (DS).

Industry Project Mentoring:

Samsung Company, Quantum Aion-Ai.

Industry certification:

- **Wipro Certified Faculty (WCF)** certificate from Wipro - TalentNext on Java Full Stack
- **Industrial Training Program** on GENERATIVE ARTIFICIAL INTELLIGENCE with hands-on experience in LLAMAINDEX, LANGCHAIN, and RAG from 1st July 2025 to 22th July 2025 at Techmiya Solutions India Pvt Ltd, Bengaluru.

Recent FDP on Quantum

Faculty Development Programme on QT-05 Quantum Computation Electronics & ICT Academies (MNIT Jaipur, NIT Patna, IIT Kanpur, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal) in collaboration with IBM ICE.

Duration: July 11 – August 02, 2025 (40 Hours, 3-Credits equivalent) Successfully completed FDP on Quantum Computation. Funded by MeitY and endorsed by DST – NQM / AICTE / UGC.

Resource person

- Resource person for 5-Day FDP from 24th to 28th March 2026 on :Modern Deep Learning Techniques for Data Driven Intelligent Systems in DSI.
- Resource person in the One Week Staff Development Program on “Python for Machine Learning” organized from 7th to 11th July 2025.

Research Publication Details:

- **(Scopus)** Muthukumaran, V., Satheesh Kumar, S., Jahnavi, S., Rose Bindu Joseph, P. and Khan, F. (2026). A Cognitive Edge-Driven Autonomous Learning System for Scalable and Secure IoV Automation. In Autonomous Systems in the Internet of Vehicles (eds B. Balusamy, S.K. Mathivanan, P. Jayagopal, S.K.B. Sangeetha and A.K. Bashir). <https://doi.org/10.1002/9781394311729.ch1>
- **(Scopus)** Koti, Manjula Sanjay, Rose Bindu Joseph, P., Jahnavi, S. and Devi, A.. "AGBO- CP: An Adaptive Gradient Boosted Optimization Framework for Enhanced Clinical Prediction Accuracy". Machine Learning in Healthcare: Data-Driven Decisions, Predictive Modelling, Personalized Medicine, edited by Saurav Mallik, Sandeep Kumar Mathivanan, S.K.B. Sangeetha, Ben Othman Soufiene, Saravanan Srinivasan and Aimin Li, **De Gruyter**, 2026, pp. 367-386.
- Arpitha, Dr. C Nandini, Vijay, Dr. Jahnavi S "Biometric Blockchain with Fingerprint- based Secret Sharing", Innovative Engineering and Scientific Approaches for Sustainable Economy and Ecotechnology, Proceedings International conference on Advances and Trends in Engineering and Scientific Theory (ICATEST-2025) Springer Publication Organized by MG Aricent Educational Foundation, Yavatmal, India on 19th & 20th September, 2025
- **(SCOPUS)** Ayush Sahu, Neeraj, ahnnav, Aryaman, Prof. Spoorthi G S, Dr.Jahnavi S published Machine and Computing Technologies for Sustainable Development Proceedings of MCT4SD 2025 in International Conference on Machine and Computing Technologies For Sustainable Development, Manila, Philippines, Volume 4, 11-13 December 2025.
- Supriya P, Jahnavi S, Pacharne Kaushal Yogesh, Nihal Gopal Jee Thakur, and Harshith,"Next Generation Quiz Generator: LangChain- Based Adaptive Quiz System for Digital Learning", International Conference on Artificial Intelligence in Engineering Systems (ICAIES 2025), 26-27th December 2025.
- Shah Gaurav Deepu, Ritik Raj, Sonu Kumar, Tanvir Shekhawat, Prof. Dr. Jahnavi S, Shah Gaurav Deepu, Ritik Raj, Sonu Kumar, Tanvir Shekhawat, Prof. Dr. Jahnavi S, "AI based Vehicle Accident Detection System", International Conference on Artificial Intelligence in Engineering Systems (ICAIES 2025), 26-27th December 2025.
- Syed Zubair Yuneeb, Shakeeb Ahmed, Tejas B N, Sneha Singh, Dr.C Nandini and Dr. Jahnavi Shankar, "Advanced Secured Key Generation Using User Face and Hand Geometry", INTERNATIONAL JOURNAL OF EMERGING TRENDS IN ENGINEERING AND DEVELOPMENT (IJETED), vol. 15, no. 1, pp. 52–61, Apr. 2025, doi: 10.5281/zenodo.15280636

- Baha Iqbal, Divya Mishra, Prakrity Gupta, S. Jahnavi, "CrispKeeper: Real-Time Food Freshness Monitoring and Recipe Recommendation Using Roboflow and GPT," in *Proc. 16th Int. Conf. Recent Eng. Technol.*, Bangalore, India, May 2025.
- **(SCOPUS Q3)** Janani Shivashankar, Jahnavi Shivashankar, Anil Kumar Bhaskar, Manjunath D R, Sampath Satheesh Kumar, Shiva Sumanth Reddy "Automatic Image Annotation and Retrieval Using Fuzzy C-Means Clustering with Gaussian Bare Bones White Shark Optimization". *International Journal of Intelligent Engineering and Systems*. Vol.18, No.1, 2025. DOI: 10.22266/ijies2025.0229.39
- **(SCOPUS)** Satheesh Kumar, S., Muthukumaran, V., Jahnavi, S., & Krishna, C. (2025). Securing the Future of IoMT: Healthcare and Comprehensive Analysis of Data Security Measures in Medical Information Systems. In V. Kumar, P. Katina, & J. Zhao (Eds.), *Convergence of Internet of Medical Things (IoMT) and Generative AI* (pp. 191-216). IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3693-6180-1.ch008>
- Sumanth Reddy, Shiva, Anil Kumar B, Jahnavi S, Manjunath D R, Girish N, and Nandini C. 2024. "Enhancing Academic Excellence through Autonomy: A Data-Driven Analysis of NIRF Rankings in South Indian Higher Educational Institutions". *Journal of Hacking Techniques, Digital Crime Prevention and Computer Virology* 1 (3):36-49. <https://doi.org/10.46610/JoHTDCPCV.2024.v01i03.004>
- Sumanth Reddy, Shiva, Girish N, Anil Kumar B, Jahnavi S, Manjunath D R, and Nandini C. "AI-Driven Personalized Learning and Content Extraction: An Emerging Paradigm". *Journal of Information Security System and Cyber Criminology Research* 1, no. 3 (December 23, 2024): 32–39. Accessed April 6, 2025. <https://matjournals.net/engineering/index.php/JoISSCCR/article/view/1249>.
- Sumanth Reddy, Shiva, Manjunath D R, Jahnavi S, and Nandini C. "A Comprehensive Review of Machine Learning Approaches in Livestock Health Monitoring". *Journal of Big Data Technology and Business Analytics* 3, no. 3 (September 25, 2024): 11–19. Accessed April 6, 2025. <https://matjournals.net/engineering/index.php/JBDTBA/article/view/964>.
- Sumanth Reddy, Shiva, Jahnavi S, and Manjunath D R. "Enhancing Data Security and Traceability in Supply Chain Management Using Blockchain Technology". *Journal of Cyber Security in Computer System* 3, no. 3 (September 3, 2024): 11–24. **Accessed April 6, 2025.** <https://matjournals.net/engineering/index.php/JCSCS/article/view/899>.
- Jahnavi S, Pradeep S, Nav tej P, Medini H S, Mamisha, BLOCKCHAIN TECHNOLOGY BASED IMAGE STEGANOGRAPHY, INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS, Vol 11, No. 1. b82-b87, 2023.
- Pushpamala S Jahnavi S ,Nayana S,Pruthivika V ,Chandini S, AI-BASED IMAGE STEGANOGRAPHY, INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS, | ISSN: 2320-2882, Vol 11, No. 1. a12-a17,2023.
- **(SCOPUS,Q3)** Jahnavi. S and C Nandini. "Hybrid Hyper Chaotic Map with LSB for Image Encryption and Decryption", *Scalable Computing: Practice and Experience* 23, no. 4, pp. 181-192. 2022 . DOI:10.12694/scpe.v23i4.2018.

- **(WoS,SCOPUS,Q2)** Jahnavi, S., Nandini, C. "Secure two fold transmission of features using multimodal mask steganography and naive based random visual cryptography system", International Journal of System Assurance Engineering and Management, 2022, DOI: 10.1007/s13198-022-01701-6 Springer publication.
- **(SCOPUS)**Jahnavi S and C Nandini , "Multifold Secured Bank Application authentication service using Random Visual Cryptography and Multimodal Steganography with Blockchain technology", International conference on Recent Trends in Machine Learning, IOT, Smart Cities & Applications, Lecture Notes in Networks and Systems, vol. 540. Springer, Singapore, organized by CMRIT, Hyderabad, India on 28th March 2022 with publication in the Springer series "Cognitive Science and Technology". **Received Best paper award.** DOI: 10.1007/978-981-19-6088-8_12.
- **(SCOPUS Q4)** Jahnavi S and C Nandini , "Novel Multifold secured system by combining Multimodal Mask Steganography and Naive based Random Visual Cryptography system for Digital Communication", Journal of Computational and Theoretical Nanoscience, Volume 17, Number 12, pp. 5279-5295, December 2020. DOI: <https://doi.org/10.1166/jctn.2020.9420>.
- **(SCOPUS)**Jahnavi S, Nandini C. Smart Anti-Theft Door locking System. In 2019 1st International Conference on Advanced Technologies in Intelligent Control, Environment, Computing & Communication Engineering (ICATIECE) 2019 Mar 19 (pp. 205-208) **IEEE**.
- **(SCOPUS)** Jahnavi S and C Nandini. "A Naive based share generation using Random Visual Crypto Technique." International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-8 Issue-12.2019. DOI: 10.35940/ijitee.A3912.119119.
- **(UGC)**Jahnavi S, C. Nandini, Aishwarya Naik, Niveditha Suresh, Jacinth Hillson "DC and DWT approach for Copyright Protection", in UGC approved International Journal of Emerging Technologies and Innovative Research, JPUBLICATION, ISSN:2349-5162, Vol.6, Issue 5, page no.106-111, May-2019.
- **(UGC)** Jahnavi.S and Dr.C.Nandini "DIGITAL DATA SECURITY USING VISUAL CRYPTOGRAPHY AND STEGANOGRAPHY TECHNIQUES: AN EXTENSIVE REVIEW", in UGC approved International Journal of Emerging Technologies and Innovative Research, IJPUBLICATION, ISSN: 2349-5162, Vol.5, Issue 9, page no. pp212-218, September-2018.
- C. Nandini, Jahnavi S ,Abdur Rahim, AkhilJalla, Anindita Das, AshutoshDubey, 15 AnkitRatan Jain , "Smart highway using arduino" National Conference on convergence of science, Technology and Management NCCSTM-2016,5th May, ISBN:978-93-84935-97-9, DSATM,Bangalore-82.
- Published Paper titled 'Siebel Open UI Service Planning and Execution' in International Journal of Emerging Trends & Technology in Computer Science (IJETTCS) Volume 3, Issue 5, September - October 2014 ISSN 2278-6856.
- Presented and published a paper in the National Conference "Emerging Engineering Exposition" titled Siebel Open UI Service Planning and Execution in BTI, 2013.
- Presented a paper titled "State Traversal Pattern Matching Algorithm" in the National Conference on soft computing & intelligent networks in 2011.

International Conference proceedings -Book Chapters published

- Jahnavi, S., Nandini, C. (2023). Multifold Secured Bank Application Authentication Service Using Random Visual Cryptography and Multimodal Steganography with Blockchain Technology. In: Gunjan, V.K., Zurada, J.M. (eds) Proceedings of 3rd International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications. Lecture Notes in Networks and Systems, vol 540. Springer, Singapore. https://doi.org/10.1007/978-981-19-6088-8_12.
- **(Scopus)** Nandni, C., Jahnavi, S. (2021). Quantum Cryptography and Blockchain System: Fast and Secured Digital Communication System. In: Bhateja, V., Satapathy, S.C., Travieso-González, C.M., Aradhya, V.N.M. (eds) Data Engineering and Intelligent Computing. Advances in Intelligent Systems and Computing, vol 1407. Springer, Singapore. https://doi.org/10.1007/978-981-16-0171-2_43.

Workshop/FDP activities

- Participated in one-day workshop on VTU Internship Implementation for Institute Coordinators held in B.M.S College of Engineering on 28-01-2026.
- Participated in one week FDP on "Next-Generation Computing: Convergence of Quantum Technologies, Ai, and Quantum Machine Learning" from Dept. of AIML in Association with IEEE Computer Society from 9th to 13th Feb 2026.
- Completed 6 days Residential FDP on Cyber security at NIT, Surathkal form BT group, CySeck on jan19th till 24th Jan 2026.
- Participated in IEEE Mini project Symposium 2025, organized by IEEE CEDA chapter and ATME college of Engineering, Mysuru on 25th Oct 2025.
- Participated in Wipro Talent Next training program on Java Full Stack-Conducted from 18th to 29th August 2025.
- Participated in Four Day FDP on Quantum Technologies and their Emerging Applications -Organized by NMIT, Sponsored by Govt. of Karnataka under VGST from 7th to 10th April 2025.
- Participated in FDP on Matlab-Organized by Dept. of CSE(DS), B.M.S College of Engineering on 15th March 2025.
- Participated in an International workshop on "The Role of Generative AI in Academics & Research on 8th August 2024 at RV Teachers College, Bangalore hosted by VTU, Visvesvaraya Research & Innovation Foundation(VRIF).
- Participate in 3 days workshop on Ethical Hacking and Cyber Security on Aug 10th to 12th 2023 at SJBIT.
- Completed NPTEL course on Outcome based pedagogic Principles for Effective Teaching in Feb-Mar 2023.
- Participated in the 6th workshop on Machine Learning & Data Analytics (MLDA'23) conducted from 01st June 2023 - 15th June 2023 by Indian Institute of Information Technology Allahabad.
- Participated in Five-day Online Faculty Development Program (FDP) on Artificial Intelligence and Machine Learning for Computer Vision and Image Analysis Applications by Dept. of ECE of NIT Warangal and Ballari Institute of Technology & Management, Ballari in association with Centre for Training and Learning during 3rd October 2023 to 7th October 2023.
- Attended FDP on IPR, Patents and Trademarks from Feb 13th to 17th 2023 organized by CSE, DSATM in Association with Cell for IPR promotion and Management of Commerce and Industry , Govt. of India.

- Participated in the Faculty Immersion Programme on Pedagogical Approaches from April 8th to 12th 2022 at DSATM.
- Participated in 3 Days National Level FDP on Mobile Application Development at DSATM from March 22nd to 24th 2021.
- Participated and Presented Research work in the Research Conclave organized by Research CELL, DSATM on 10th April 2021.
- Completed Training Program on Data Analytics with Python & AI by Electro cloud Labs in Association with DSATM under COE for DS&ML Lab from 29th to 31st March 2021.
- Completed 3 Days hands on training AI in cyber security organized by National Cyber Defense Research Centre , New Delhi in Dec 29th to 31 2020.
- Participated in 5 Days National Level FDP on Machine Learning and Deep Learning with [H2o.ai](https://www.h2o.ai) at DSATM from 28.01.2020 to 01.02.2020.
- Completed Training on Cyber Security from 2nd to 6th Dec 2019 at DSATM, Bangalore in association with AICTE Atal Academy and National Power Training Institute.
- 5 Day National Level FDP on Zero-Defect coding Using Altair for IOT and Embedded Solution 28th June to 2nd July 2019.
- Participated in 3 Days National Level Workshop on Research methodology in DSATM from 21st to 23rd Feb 2019.
- Big Data Analytics using Hadoop from 16th to 20th Jan 2019 by DSATM in association with Innovation Lab DSU and CSI-Bangalore Chapter from 16-01-2019 to 20-01-2019.
- Attended Workshop on "OBE practices" in DSATM on 18th ,19th and 20th June 2018.
- participated in teaching learning Methodology organized by DSATM from 26th to 28th July 2018.
- Attended Workshop on "Certified Cyber Security Professionals(CCSP)" on 23rd and 24th June 2018 in Rajarajeswari Medical College of Engineering campus.
- Attended FDP program on "cyber security" on 22nd June 2018 in Rajarajeswari Medical College of Engineering campus.
- Workshop on "FOUNDATIONS of Quantum Computing" organized by the dept of CSE, JNNCE, Shimoga in association with IETE and CSI from 05-10-2020 TO 09-10-2020.
- WEBINAR SERIES ON RESEARCH FOCUS IN COMPUTER SCIENCE Organised by Department of Computer Science & Engineering Dayananda Sagar Academy of Technology & Management, Bangalore from 08-06-2020 to 12-06-2020.
- Three days faculty development program on "Microcontroller and Embedded systems Laboratory-18CSL48(As per VTU 2018-19 Scheme)" from 6th to 8th Feb 2020 organized by Department of CSE & ISE, DSATM.
- Attended 5 Day FDP on Data Science using python at DSATM from Jan 8th to 12th 2018.
- Attended workshop on "3Day NBA workshop 2017" in Dayananda Sagar Academy of Technology & Management Institute bengaluru from 11th-13th December 2017.
- Attended Workshop on Building an Effective Personal Brand Matrix as a part of Oracle Volunteers in partnership with Curricula solutions Ltd for International Women's Day 2017.
- Attended FDP program on Database Application Development which will be held on 2nd and 3rd of August-2017 in RNSIT.

- Attended FDP program on Knowledge Discovery and Data Analytics on Jan 30th and 31st 2017 in DSATM organized by CSE department.
- Attended workshop on "IBM-Bluemix for IoT & Security" in B.N.M. Institute of Technology, Bengaluru from 11th-16th July 2016.
- Attended One day Workshop On "Research Trends in Image Processing", in Department of Computer Applications, DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE (DSCASC), on 24th August 2015.
- Participating in the one-day FDP titled "Research Avenues in Computer Science" organized by Dayananda Sagar College held on Held on 7th October 2014.

Educational Qualification:

Qualification	Year of Pass	Institution	Percentage (%)
Ph.D	Nov, 2023	Visvesvaraya Technological University	
M.Tech	2013	RNSIT, Bangalore	81
B.E	2011	AMC Engineering College, Bangalore	75
P.U.C	2007	National College Jayanagar, Bangalore	69
10 th	2005	New Holy Cross English school	79

Industrial Exposure:

Worked as Intern in Wipro Technologies on Siebel Platform with HTML, CSS, Javascript and JQuery from 2nd July 2012 to 31st May 2013.

Skills:

Language: C, C++, Siebel, CSS, HTML, JavaScript, SQL, Python

M.Tech Project

Design and Implementation of Siebel Service Execution System and Deploying it in Handheld device.

Organization	Wipro Ltd.
Project Title	Design and Implementation of Siebel Service Execution System and Deploying it in Handheld device
Technology Used	Siebel, CSS, Javascript, and JQuery
DB	Oracle 11g
Tools	Siebel
From	July 2 nd 2012 – May 31 st 2013
Role	Intern Trainee

B.E Project

- Worked in HAL for final year project for 6 Months in Intrusion Detection using AdaBoost Algorithm using C Language in MatLab Tool.

Intrusion Detection Using Ada-Boost

Project Title	Intrusion Detection Using Ada-Boost
Technology Used	C
Role	Project Trainee
Project Type	Development

Personal Details:

Name	:	Jahnavi S
Date of Birth	:	26-01-1990

Sex : Female
Nationality : Indian
Email : jahnavi261990@gmail.com
Phone No : 9449113282
Address : #109/11, 3rd Main, 5th Cross, Marenahalli Tank Bund
Area, Jayanagar 4th 'T' Block Bangalore-560041.

- Secured First price in Inter College Drama competition in PUC held in National College.
- Participated and Won 2nd place in Super minute Game organised by Chirathana team on the occasion of Teacher's day on 4th Sep 2024 in BMSCE.

Declaration:

I hereby declare that the above mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.

Place: Bangalore

Jahnavi S

