PROFILE

Name	Dr. Yashaswini S
Position & Affiliation	Associate Professor, Department of CSE
Areas of Interest	AI, ML, NLP, Computer Vision
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Professional Webpage (if any)	-

Educational Qualifications:

Ph.D	VTU	India	2023
MTech	MSRIT, VTU	India	2012
BE	NIE, VTU	India	2010

Areas of Research:

Artificial Intelligence, Machine Learning, NLP, Image Processing

Brief Profile: (write about yourself)

Yashaswini S, Presently Working as Associate Professor in Department of CSE, Cambridge Institute of Technology, Bangalore, she is Having 11+ years of Teaching Experience and almost 2 years of industrial experience. She has Completed her PhD in text to scene generation under VTU Belagavi in 2023.

she has published many research papers in international journal, international conference and national conference papers, she has proactively Participated in many FDP'S and workshop, as a part of industrial interaction has participated FDP on "Business Process Modelling Tools and Process Model" at J.P. Morgan PVT LTD and "Cyber Forensic workshop at NCS" at Nihon Communications PVT LTD. Her Areas of Interests include Digital Image Processing, NLP, Machine Learning, Computer Networks, cloud computing, and Information Security.

She has also completed the online certifications on cutting edge technology, IITB course on Moodle, Drupal and actively Mentored student groups in Samsung Prism research projects, INBCB seed brains to propose new ideas and methodology for CCCIR incubation centre. Guiding students at various levels (BE, MTech and PhD), Samsung Prism Projects and CCCIR Research Project.

Awards/Achievements/Others:

1. Life Time Member for Artificial Intelligence and Machine Learning Association (AIMEE)
2. Life Time Member for ISTE
3. Received award of excellence for Dashboard Admin Panel for Samsung Prism Project
4. Best Paper award for "orientational Aspects of objects in Text to 3D Scene Generation for interior designing", ICECAT, Volume 1, Issue 01, 65-69,2020

Courses Taught:

Python, C, C++, Java, Unix, MySQL, Machine Learning, Artificial Intelligence, Computer Vision, Digital Image Processing, Big Data analysis, System Software & Compiler Design, Social Network Analysis, Research Methodology, Data Mining and Data Warehousing, DBMS, Computer Networks, Web Programming, Software Engineering, Xml, Web 2.0 &RIA, Operating System, Software Testing, High Performance Computing, Web Services, Unix, Operating system security, Software Project Management

Publications/Patents:

Publications	**Conference** 1. Yashaswini S "Design and Development of Plug-in in Virtual Network for Datacenter Analysis", International Conference on Computer Science and Information Technology (ICCSIT-2012), Coimbatore, April,2012. 2. Yashaswini S "Design and Development of Datacenter Analysis Plug-in in Virtual Network" in National Conference on Recent Advances in Technology and Engineering (RATE 2012) TJIT, Bangalore, 2012. 3. Suhasini S, Yashaswini S, "Load Balancing Using Threshold and Ant Colony Optimization in Cloud Computing, International Conference on Cloud Computing Computer Science and Advances in Information Technology- ICCCCIT Volume 1, ISSUE-1, 66-7, ISSN(PRINT): 2454-406,2016 4. Suhasini S Yashaswini S, "Web service server that extracts data about various countries using a WSDL-based SOAP web service", 13th International Conference on Cloud Computing Computer Science and Advances in Information Technology-

Volume 2, issue 1,1-5, ijaepsit,2016

5. Shylaja S S Yashaswini S , "orientational Aspects of objects in Text to 3D Scene Generation for interior designing" , ICECAT, Volume 1,Issue 01, 65-69,2020
6. S S Shylaja Yashaswini S, "Story Telling: Learning to visualize sentences through generated scenes", Volume 2, International Conference on Computer Vision and Robotics (CVR 2022)

Journal

1. Yashaswini S "Friend book: A Semantic Based Friend Recommendation System" , I-manager's Journal on Mobile Applications and Technologies ,Nagercoil, Vol. 2, Is. 1, (Feb-Apr 2015): 16-23.
2. Yashaswini S , Shylaja S S, "A Survey on Challenges in Text to Scene Generation", ijsr, Volume 8, Issue 12,1960-63, 2019.
3. Yashaswini S, Shylaja S S, "Comparitive Study of a POS Tagging for Interior Designing", ijct, Volume 12, Issue 01, 625-643, journalcra,2020
4. Yashaswini S, Shylaja S S, "Constraint based Interior Designing interface for Scene Generation using text", ijser, Volume 11, Issue 4, 196-200, ijser,2020.
5. Yashaswini S ,Shaik Mohammad Nishad, Kushal N, Siri R Janige, Veena P , "Stock Market Prediction using Machine Learning", ijsrem, Volume 4,Issue 08, 253-300, ijsrem, 2020.
6. Yashaswini S, S S Shylaja, "Texture Oriented Scene Generation from Natural Language Text Description using 3D Coloured Objects", IJRASET Volume 9, Issue-4, 520-526, International journal for research in applied science & engineering technology (IJRASET),2021
7. S. Yashaswini, S. S. Shylaja, "Metrics for Automatic Evaluation of Text from NLP Models for Text to Scene Generation" , European Journal of Electrical Engineering and Computer Science: Vol. 5 No. 4 (2021)
8. Yashaswini, S. and Shylaja, S.S, "Learning Preposition Priors to Generate Scene from Text Using Contact Constraints". European Journal of Electrical Engineering and Computer Science. 5, 4 (Aug. 2021), 85–89.
9. Yashaswini, S., Shylaja, S.S. (2023). Story Telling: Learning to Visualize Sentences Through Generated Scenes. In: Shukla, P.K., Singh, K.P., Tripathi, A.K., Engelbrecht, A. (eds) Computer Vision and Robotics. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-19-7892-0_1, April

2023.

10. S Yashaswini, Pushpalatha Dubey, S Rajesh Kumar, "Rice Quality Analysis Based on Physical Attributes Using Image Processing and Machine Learning", 2023 International Conference on Advances in Electronics, Communication, Computing and Intelligent Information Systems (ICAECIS), pp.400-405, IEEE, July 2023.
11. Yashaswini, S., Jayanthi, M. G., & Subhash, J. (2023). Captioning and Classification of Brain Tumor from MRI Images using Deep Learning Methods. Journal of Coastal Life Medicine, 11, 302-307, April 2023.
12. Yashaswini S, Dr. Preethi S, Dr. Jayanthi M G, "An Efficient Hybridization Approach for Tissue Segmentation and Classification in Brain MRI Images", International Journal of Novel Research and Development, Volume 8, Issue 3, PP a598-a612, March 2023
13. Yashaswini S, Jenitha Subhash, Dr Jayanthi M G, "Comparative Analysis of Various Haze Removal Technique for Computer Vision Application", Adalya Journal, Volume 12, Issue 7, PP 84-92, July 2023
14. Dr Priyanka R Dr Yashaswini S," Comparative Study of Cryptographic Algorithm for Storing Passwords, Journal of Xidian University, Volume 17, Issue 12, PP 964-971, December 2023.
15. Dr Yashaswini S, Dr Jayanthi M G, "Deep Learning Techniques for Image In-painting Applications" Gradiva Review journal, volume 9, issue 4, pp 421-430, April 2023
16. Dr jayanthi M G Dr Yashaswini S, "Realizing Sentence Semantics from Large Language Model and Abstract Scene for kids with Autism", Strad Research, Volume 11,Issue 1, PP 157 -164, Jan 2024.
17. Dr Yashaswini S Dr Priyanka R, Tajaswini M, "Automated Accident Identification and Reporting System", International Research Journal of Computer Science, Volume 11, Issue 1, PP 80-88, Jan 2024
18. Dr. Yashaswini S Dr Priyanka R, "Developing and Using an IOT-Powered Adaptive Device for the Military Systems" International Journal of Innovative Science and Research Technology, Volume 9, Issue 3, 2616-2619, March – 2024.
19. Dr.Yashaswini S, Dr.Jayanthi M G, "Adversarial Attack in Traffic Sign Identification Using Deep Learning Framework", International Journal For Multidisciplinary Research, Volume 6,Issue 3,PP 1-4, May 2024.

Patents	1. Food processing and quality assurance using AI and ML,1/1/2023, 202341000002. The purpose of the current innovation is to come up with some form of system for the management and control of the quality of food; It has the power to enable each raw material manufacturing flow process be processed according to the best that the expert drew and assures that the food that it produces can achieve stable and best in quality, and it has a high practicability. 2. Voice-Enabled Patient Assistance System Using IOT AND Artificial Intelligence,22/12/23, 202341080463 A. All healthcare personnel prioritize providing patient assistance in hospitals and clinics with the ultimate goal of maximizing patient happiness. Patients can engage with multilingual voice-enabled patient assistance systems to obtain information and schedule appointments. The suggested work offers a way to have a fully functional system that automates all patient monitoring tasks using artificial intelligence in order to minimize manual work and mistakes caused by human error, to offer a smooth framework for patient engagement, and to have remote virtual queue management. The patient support system proposed in this study will have several key advantages, including enhanced patient experience, faster workflow, less manual labor, and interaction with efficient queue management. Additionally, an application for managing appointments remotely is being created.
Book/Book Chapters	1. Yashaswini, S., Shylaja, S.S. (2023). Story Telling: Learning to Visualize Sentences Through Generated Scenes. In: Shukla, P.K., Singh, K.P., Tripathi, A.K., Engelbrecht, A. (eds) Computer Vision and Robotics. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-19-7892-0_1, April 2023. 2. **Submitted book chapter** to CRC Press. Dr. Yashaswini S, Dr. Jayanthi M G, Dr. Shreekanth M Prabhu (2025). Surveillance of CCTVs using IoT Devices for book chapter "**Handbook on Integrating Smart Technologies for Sustainable Development" .**

Research and Consultancy:

Samsung SRIB Research Project:

1. Non reference image quality metrics using prompt text.
2. Hallucination detection using GenAI

Samsung Prism Projects

1.Dashboard Admin panel.

2. Completed project on Payment Fraud Alert

3. Completed project on Phonetic Model for Indian Language Ongoing projects

4. Model for assessing aesthetic of ground truth image

5. Model for image quality assessment