SRI SHRIDEVI CHARITABLE TRUST (R.)

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

NAME: Dr. Girish L
Designation: HOD & Associate Professor
Department: Artificial Intelligence & Data Science

Date of Joining	08.07.2022		
Professional Experience	Teaching	Industry	Research
	13	1	06

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Academic Background	
• **Ph.D**	**Next Generation Network Performance Analysis using AI - VTU, Belagavi**
• **MTech (CSE)**	**VTU, Belagavi**
• **BE (ISE)**	**VTU, Belagavi**

Areas of Interest	
• Machine Learning	• Cloud Computing
• Devops	• Next Generation Network

Significant Publications
No. of Papers Published in Journals (20)

1. H. C, G. L, C. V, J. N. Shreyas, and B. C, “Sign language recognition using machine learning,” International Journal of Advanced Scientific Innovation, vol. 5, no. 2, 2023.

2. G. L and R. M. L., “Machine learning defence mechanism for securing the cloud environment,” International Journal of Advanced Scientific Innovation, vol. 5, no. 1, 2023.

3. G. L. et al, “Pcu-lstm: Predicting cloud cpu utilization using deep learning,” NeuroQuantology, vol. 20, no. 22, pp. 2061–2069, Dec. 2022.

4. L. Girish and S. Rao, “Anomaly detection in cloud environment using artificial intelligence techniques,” Computing, 2021**.**

5. G. L, P. T. P, C. S, and D. M. R, “Devops methods for automation of server management using ansible,” International Journal of Advanced Scientific Innovation, vol. 1, no. 2, pp. 7–13, 2021. doi: 10.5281/zenodo.4782271**.**

6. G. L, M. R, K. U. Farooq, and G. H. B, “Neural network based smart city application for traffic violation
detection,” International Journal of Advanced Scientific Innovation, vol. 2, no. 4, 2021. doi: 10.5281/zenodo.5644879**.**

7. G. L, P. S, S. M, and C. S, “Ddos detection and mitigation sdn using support vector machine,” International Journal of Advanced Scientific Innovation, vol. 1, no. 2, pp. 26–31, 2021. doi: 10.5281/zenodo.4782280.

8. G. L, H. Sadiya, D. S, and H. G. KL, “Open source platform for the complete life cycle of ai and ml,” International Journal of Advanced Scientific Innovation, vol. 1, no. 2, pp. 14–20, 2021. doi: 10.5281/zenodo.4782277.

9. G. L and R. SKN, “Quantifying sensitivity and performance degradation of virtual machines using machine learning,” J Comput Theor Nanosci, 2020. doi: 10.1166/jctn.2020.9019.

10. G. L, “Anomaly detection in nfv using tree-based unsupervised learning method,” International Journal of Science, Technology, Engineering and Management - A VTU Publication, vol. 1, no. 2, pp. 27–31, 2019.
url: http://ijesm.vtu.ac.in/index.php/IJESM/article/view/232.

11. G. L, “Crop yield and rainfall prediction in tumakuru district using machine learning,” Aug. 2019. doi: 10.18231/2454-9150.2018.0805.

12. G. L and D. T. K, “Efficient monitoring of time series data using dynamic alerting,” i-Manager’s Journal
on Computer Science, 2018

13. G. L and S. H. C, “An hybrid approach for suitable content navigation based on weighted clustering for online users,” International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), 2015.

14. G. L and S. Khanum, "Meta heuristic approach for task scheduling in cloud datacenter for optimum performance," International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), vol. 4, 2015.

15. G. L, Y. Nayana, and J. Gopinath, "Ddos mitigation using software defined network," International Journal of Engineering Trends and Technology (IJETT), vol. 24, no. 5, pp. 258–264, 2015

16. G. L, M. Ramya, and C. Balaji, "Environment change prediction to adapt climate-smart agriculture using big data analytics," International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), vol. 4, 2015.

17. G. L, T. V. Rashmi, and K. Prasanna, "Load balancing as a service in openstack-liberty," International Journal of Scientific & Technology Research, vol. 4, no. 8, pp. 70–73, 2015.

18. G. L and A. K. S, "Dynamic management of virtual machines for server consolidation in data centers," International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), 2015.

19. G. L and D. S. Sahana, "Automatic drug reaction detection using sentimental analysis," International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), vol. 4, 5 May 2015.

20. G. L and D. K. Thara, "Efficient virtual machine memory transfer in datacenter with optimal downtime," International Journal of Engineering Trends and Technology (IJETT), vol. 23, no. 9, May 2015.

2. No. of Papers Presented in Conferences (6)

1. L. Girish and R. M. L, "Intelligent resume scrutiny using named entity recognition with bert," in IEEE-International Conference on Data Science and Network Security (ICDSNS)-2023, 2023.

2. J. P. Deekshitha, R. Shankar, and L. Girish, "Sentimental analysis on covid-19 tweets using bidirectional
encoder representations transformers," in 2021 IEEE International Conference on Computation System
and Information Technology for Sustainable Solutions (CSITSS), 2021, pp. 1–8. doi: 10.1109/CSITSS54238.2021.9683648

3. L. Girish, S. K. Rao, T. Renukananda, K. Vidyashree, and R. Hemashree, "Dadgan: Ddos anomaly

detection using generative adversarial network," in 2021 IEEE International Conference on Computation
System and Information Technology for Sustainable Solutions (CSITSS), 2021, pp. 1–7. doi: 10.1109/CSITSS54238.2021.9683282.

4. L. Girish and T. Chaithra, "Crop disease prediction in tumakuru district using machine learning," in National Conference on Innovations in Computing and Communications (NCICC), 2017, 2017.

5. L. Girish and S. K. Rao, "Mathematical tools and methods for analysis of sdn: A comprehensive survey,"
in Contemporary Computing and Informatics (IC3I), 2016 2nd International Conference on, IEEE, 2016

6. L. Girish and B. Vineetha, "Dynamic service function chaining of network functions using sdn," in Indian Society for Technical Education, National Level Technical Paper Symposium, HMSIT, Tumakuru,
2016, 2016.

Patents:

1. G. L, R. T. V, P. M, and S. H. S, "Psychological stress detection to avoid suicide cases using deep learning," Ordinary Application 202 241 011 833, 2023**.**

2. G. L, "Identifying family members of refugees using deep learning," 202 141 017 155, 2022.

3. M. Y. M, A. H. C, P. B, M. K, G. H. B, and G. L, "Covid-19 fake news detection using transformers and deep learning," Ordinary Application 202 141 030 592, 2022.

Projects:

2016-2022:

Administrator of Private Cloud Developed Using Openstack
With the objective of offering cloud storage space to students and faculty, as well as facilitating the operation of institutional software such as Moodle, Odoo, and Library Software, I was tasked with the responsibility of stablishing a cloud environment. As the Administrator of the Cloud, I played a pivotal role in this endeavor and made the following contributions:
Three servers are used to establish a secure private cloud infrastructure. One server functioned as the Controller node, the second server as the Compute Node, and the third server was designated for storage purposes. In July 2018, I delivered a presentation titled "Private Cloud: OpenStack" to all faculty members from various colleges. I pro- vided training to students on OpenStack

cloud technology, resulting in several students securing jobs within the OpenStack domain.

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2017-2022:

Moodle Administrator I configured and customized the Moodle application to align with the specific requirements of the institution and conducted training sessions for both faculty and students toensure the successful utilization of Moodle within the institution. In an effort to stream-line processes and reduce manual effort, we implemented a faculty feedback system and quizzes through Moodle. This initiative has led to the conservation of approximately 15,000 sheets of paper per semester. I presented a hands-on session on Moodle at the VTU Regional Centre in Gulbarga, addressing faculties from diverse colleges.

2022-Present:

- Centre of Excellence in Cloud Computing (Cloud Lab) in SIET I have taken lead in the establishment of a distinguished Centre of Excellence within our institution through the creation of an advanced Cloud Computing Lab. Consciously acknowledging the pivotal role that contemporary technology plays in education, I have personally led the effort to develop a cutting-edge cloud lab, complete with state-of-the-art thin clients. This innovative initiative has unequivocally enhanced our students' educational journey by affording them tangible, hands-on experience within the realm of advanced technologies. Notably, one of the primary advantages of this initiative is a substantial reduction incosts, with an impressive 60% reduction achieved. Furthermore, the implementationhas embraced the adoption of the latest trending technology, DevOps. This strategic incorporation enables our students to engage with the very forefront of technological advancements, empowering them to work on the latest cutting-edge tools and techniques This holistic approach ensures that our students are not only academically prepared but also well-equipped for the evolving demands of the technology landscape.

- Coordinator - VTU Digital Valuation I served as a VTU Digital Valuation Coordi-nator, where I played a important role in streamlining the evaluation process within Visvesvaraya Technological University in SIET. My responsibilities encompassed estab-lishing and maintaining the essential infrastructure, including server systems and soft-ware, to support digital valuation. I effectively managed the Sophus platform for the seamless downloading of valuation question schemes**.**

Skills:

- Languages : Kannada, English, Hindi.
- Coding : Java, php, Python, Julia.
- Databases : Mysql, Postgresql.
- Web Dev : Html, css, JavaScript, Apache Web Server, Tomcat Web Server.

- Subjects] Machine Learning, Computer Network.

Awards & Achievements

2019:

- Open Source Networking Days 2019, Belgium I was awarded travel and accommodation grants by the Linux Foundation, facilitating my atten-dance and presentation at the Open Source Networking Days held in September 2019 in Belgium.
- Open Source Summit 2019, Japan I was fortunate to receive travel and accommodation grants from the Linux Foundation, en- abling me to attend and deliver a presentation at the Open Source Summit in July 2019, held in Japan.
- Best Project of the Year Project Title: Crop Yield and Rainfall Prediction in Tumakuru District using Machine Learning. Issued by Karnataka State Council for Science and Technology (KSCST), Indian Institute of Sci-ence, Bangalore · Jun 2019

2018:

- **Investigation of artificial intelligence in testing and its results analysis The project lasted for a period of six months, spanning from July 2018 to December 2018. For my contributions during the internship, I received a stipend of 3000 US Dollars. Notably, I was also honored to receive an invitation from the Linux Foundation to participate in the ONAP OPNFV Plugfest scheduled to take place in Paris from January 8th to 11th, 2019, with the added support of travel grants.**

Certification:

2020:

- **AWS Fundamentals: Going Cloud-Native.**
- **Fundamental of Kuberenets Deployment.**
- **Programming for Everybody – Python.**

Professional Membership:

IEEE---- → Institute of Electrical and Electronics Engineer.

IEI --→ Institution of Engineers (India)

Interests:

Badminton, Open Source Contribution, Community Organizer for Machine Learning Projects, Networking.