



## FACULTY PROFILE ON WEBSITE

Faculty Name	Dr. Gerard Deepak	
Academic Designation	Professor & Associate Dean-Research	
Educational Qualification	B.Tech, M.E., PhD (NIT-T), K-SET	
Experience in Teaching & Industry	11.2 years as on 25/08/25	
Date of Joining	25/08/2025	
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### Educational Details

**Ph.D.** in Semantic Artificial Intelligence from National Institute of Technology Tiruchirappalli. Qualified **K-SET** for Assistant Professorship  
**M.E.** in Computer Science and Engineering from University Visvesvaraya College of Engineering, Bangalore University, Bangalore (90.45 % & Gold Medalist)  
**B.Tech** in Information Technology from Anna University, Chennai (9.01 CGPA)

### Professional Experience

Holds a rich experience of about 11.3 years across several industries and premiere educational institutes at various capacities like Associate Head-Research and Sr. Associate Research at Usable Bytes, Pune, Associate Professor at BMS Institute of Technology Bengaluru, Assistant Professor at different levels in Manipal Institute of Technology Bengaluru and CHRIST (Deemed to be University), Bengaluru at different timelines. Also, held industry positions like Data Specialist Engineer at SpaceAge Bangalore and Usable Bytes, Pune and Programmer Analyst at Cognizant Technology Solutions, Bengaluru

### Publications (SCOPUS/ SCIE/ Web of Science- ESCI Indexed)

1. Gerard Deepak and Santhanavijayan A (2020). OntoBestFit: A Best-Fit Occurrence Estimation Strategy for RDF Driven Faceted Semantic Search. *Computer Communications, Elsevier*, Vol.160, pp. 284-298, July 2020.

2. **Gerard Deepak** and **Santhanavijayan A** (2021). UQSCM-RFD: A Query-Knowledge Interfacing Approach for Diversified Query Recommendation in Semantic Search based on River Flow Dynamics and Dynamic User Interaction. *Neural Computing and Applications*, Springer, pp.1-25.
3. **Gerard Deepak, Adithya V** and **Santhanavijayan A** (2021). OntoInfoG++: A Knowledge Fusion Semantic Approach for Infographics Recommendation, in *International Journal of Interactive Multimedia and Artificial Intelligence*.
4. **Gerard Deepak** and **Santhanavijayan A** (2021). OntoDynS: Expediting Personalization and Diversification in Semantic Search by facilitating Cognitive Human Interaction through Ontology Bagging and Dynamic Ontology Alignment. *Journal of Ambient Intelligence and Humanized Computing*, Springer.
5. **Gerard Deepak**, Rooban, S, and **Santhanavijayan, A.** (2021). A knowledge centric hybridized approach for crime classification incorporating deep bi-LSTM neural network. *Multimedia Tools and Applications*, Springer (
6. **Gerard Deepak**, & **Priyadarshini, J. S.** (2018). Personalized and Enhanced Hybridized Semantic Algorithm for web image retrieval incorporating ontology classification, strategic query expansion, and content-based analysis. *Computers & Electrical Engineering*, 72, 14-25
7. **Gerard Deepak**, **Gulzar, Z., & Leema, A. A.** (2021). An intelligent system for modeling and evaluation of domain ontologies for Crystallography as a prospective domain with a focus on their retrieval. *Computers & Electrical Engineering*, 96, 107604.
8. **Gerard Deepak**, **Deepak Surya, Ishdutt Trivedi, Amrutha Lingampalli** (2021), An Artificially Intelligent Approach for Automatic Speech Processing based on Triune Ontology and Adaptive Tribonacci Deep Neural Networks. *Computers & Electrical Engineering, Elsevier*
9. **Gerard Deepak.**, **Teja, V., & Santhanavijayan, A.** (2020). A novel firefly driven scheme for resume parsing and matching based on entity linking paradigm. *Journal of Discrete Mathematical Sciences and Cryptography, Taylor and Francis*, 23(1), 157-165.
10. **Gerard Deepak.**, & **Kasaraneni, D.** (2019). OntoCommerce: an ontology focused semantic framework for personalised product recommendation for user targeted e-commerce. *International Journal of Computer Aided Engineering and Technology, Inderscience Publishers*, 11(4/5), 449-466.
11. **Gerard Deepak.**, **Ahmed, A., & Skanda, B.** (2019). An intelligent inventive system for personalised webpage recommendation based on ontology semantics. *International Journal of Intelligent Systems Technologies and Applications, Inderscience Publishers*, 18(1-2), 115-132.
12. **Praveen, S. V., Ittamalla, R., & Deepak, G.** (2021). Analyzing the attitude of Indian citizens towards COVID-19 vaccine—A text analytics study. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews, Elsevier*, 15(2), 595-599.
13. **Kaushik, I. S., Gerard Deepak.**, & **Santhanavijayan, A.** (2020). QuantQueryEXP: A novel strategic approach for query expansion based on quantum computing principles. *Journal of Discrete Mathematical Sciences and Cryptography*,

**Taylor and Francis**, 23(2), 573-584.

14. **Gerard Deepak**, Shwetha, B. N., Pushpa, C. N., Thriveni, J., & Venugopal, K. R. (2020). A hybridized semantic trust-based framework for personalized web page recommendation. *International Journal of Computers and Applications, Taylor and Francis*, 42(8), 729-739.
15. **Gerard Deepak** & Gulzar, Z. (2017). Ontoepds: Enhanced and personalized differential semantic algorithm incorporating ontology driven query enrichment. *Journal of Advanced Research in Dynamical and Control Systems*, 9, 567-582.
16. **Gerard Deepak**, & Priyadarshini, S. (2016). A hybrid framework for social tag recommendation using context driven social information. *International Journal of Social Computing and Cyber-Physical Systems, Inderscience*, 1(4), 312-325.
17. Praveen, S. V., Ittamalla, R., & **Gerard Deepak** (2021). Analyzing Indian general public's perspective on anxiety, stress and trauma during Covid-19-a machine learning study of 840,000 tweets. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*, 15(3), 667-671.
18. Shreyas, K., Gerard Deepak & Santhanavijayan, A. (2020). GenMonto: A strategic domain ontology modelling approach for conceptualisation and evaluation of collective knowledge for mapping genomes. *Journal of Statistics and Management Systems, Taylor and Francis*, 23(2), 445-452.
19. Umaa Mageswari, S., Mala, C., Santhanavijayan, A., & Gerard Deepak. (2020). A non-collaborative approach for modeling ontologies for a generic IoT lab architecture. *Journal of Information and Optimization Sciences, Taylor and Francis* 41(2), 395-402.
20. Kynshi, L. D. L., Gerard Deepak., & Santhanavijayan, A. (2021). MagnetOnto: modelling and evaluation of standardised domain ontologies for magnetic materials as a prospective domain. *International Journal of Intelligent Enterprise Inderscience*, 8(4), 459-475.
21. Gerard Deepak, Anirudh M, Akhil S Krishnan, Y Pushpanjali, SheebaPriyadarshini J, Santhanavijayan A (2022). FCROS: An Approach for Favorable Crop Recommendation Using Ontology Semantics and Selective Knowledge Stack. *In NeuroQuantology*, Vol. 20, Issue 12 Oct 2022.
22. Gerard Deepak, Arulmozhi Varman M, Palvannan S, Deepak Surya S, Dev Agrawal, Ashvanth R (2022). RISL:RDF Driven Indexing Scheme Using Intelligent Semantics and Lion Optimization. *In NeuroQuantology*, Vol. 20, Issue 12 Oct 2022. (SCOPUS Indexed, Unpaid,)
23. Gerard Deepak, Pavan Satya Krishna, Unnam Lasya B, Kadavath Deekshitha, Ashu Aravind, Naga Yethindra Y, Santhanavijayan A (2022). MOWIR: Metadata Centered Ontology Controlled Web Image Recommendation Scheme for Botanical and Horticultural Domains. *In NeuroQuantology*, Vol. 20, Issue 12 Oct 2022. (SCOPUS Indexed, Unpaid,)
24. Gerard Deepak, Saran B M, Ishdutt Trivedi, Saran Kaarthik B T, Shiv Shankar K, Gokulraaj, Sheeba Priyadarshini J, Santhanavijayan (2022). HyKCBBookRec: A Hybrid Framework for Knowledge Centric Book Recommendation Using Integrative Semantics and Variational Learning. *In NeuroQuantology*, Vol. 20, Issue 12 Oct 2022. (SCOPUS Indexed,

Unpaid,)

25. Gerard Deepak, Vamsi S, M Goutham Siddharth, M Ushasree, Ramanathan N, P Sai Kesava, Narasihma R, Santhanavijayan. (2022). Bi-LDR: A Bi-Classification Model for Legal Document Recommendation using Knowledge Synthesis Approach. *In NeuroQuantology*, Vol. 20, Issue 12 Oct 2022. (SCOPUS Indexed, Unpaid,)
26. Gerard Deepak, Madijagan, Sanjeev, Ahmed, Anand, Veerasamy "MCSC-Net: COVID-19 detection using deep-Q-neural network classification with RFNN-based hybrid whale Optimization" in *Journal of X-Ray Science and Technology* (2023) , IOS Press.
27. Deepak, Gerard, and Ishdutt Trivedi. "A Hybridized Deep Learning Strategy for Course Recommendation." *International Journal of Adult Education and Technology (IJAET)* , IGI Global, 14, no. 1 (2023): 1-16.
28. Deepak, Gerard, Sowmya Gali, Abhilash Sonker, Bobin Cherian Jos, K. V. Daya Sagar, and Charanjeet Singh. "Automatic image captioning system using a deep learning approach." *Soft Computing* (2023): 1-9.
29. Giri, K.S.V., Deepak, Gerard. A semantic ontology infused deep learning model for disaster tweet classification. *Multimedia Tools Applications* (2023). <https://doi.org/10.1007/s11042-023-16840-6>, Springer.
30. Anusha Sowbarnika, V., R. Lokeshkumar, T. Gopalakrishnan, S. Priya, and Gerard Deepak. "Enhanced security measures in wireless sensor networks: Leveraging random forest and k-means clustering for node replication attack detection." *International Journal of Computing and Digital Systems* 16, no. 1 (2024): 1-19.
31. Deepak, Gerard, et al. "Ai-enhanced thermal modeling for integrated process-product-system optimization in zero-defect manufacturing chains." *Thermal Science and Engineering Progress, Elsevier* 55 (2024): 102945.
32. Deepak, Gerard, et al. "Privacy-preserving deep learning approaches for effective utilization of wearable health data." *Measurement: Sensors* , Elsevier 33 (2024): 101238.
33. Mageswari, Umaa., Deepak, Gerard., Santhanavijayan, A. et al. The IoT resource allocation and scheduling using Elephant Herding Optimization (EHO-RAS) in IoT environment. *Int. j. inf. tecnol.* **16**, 3283–3293 (2024). <https://doi.org/10.1007/s41870-024-01800-6>
34. Deepak, Gerard, et al. "Thermodynamic modeling and AI-enhanced optimization of a novel tri-level waste heat recovery system for industrial processes." *Thermal Science and Engineering Progress, Elsevier* 56 (2024): 103098.
35. Deepak, Gerard, et al. "Thermodynamic analysis of a novel concentrated solar power plant with integrated thermal energy storage." *Thermal Science and Engineering Progress, Elsevier* 56 (2024): 103055.

## **International Conferences: (SCOPUS/ WoS Indexed)**

### **International Conferences Held Abroad**

1. Roopak, N., & Gerard Deepak (2021, November). OntoKnowNHS: Ontology Driven Knowledge Centric Novel Hybridised Semantic Scheme for Image Recommendation Using Knowledge Graph. In Iberoamerican Knowledge Graphs and Semantic Web Conference (pp. 138-152), held at Texas A&M University, USA and Published by CCIS Book Chapter, Springer, Cham.
2. Ojha R., Gerard Deepak. (2021) Metadata Driven Semantically Aware Medical Query Expansion. In: Villazón-Terrazas B., Ortiz-Rodríguez F., Tiwari S., Goyal A., Jabbar M. (eds) Knowledge Graphs and Semantic Web. KGSWC 2021. Communications in Computer and Information Science, vol 1459. Springer, Cham.
3. K. N and Gerard Deepak, "Towards a Novel Framework for Trust Driven Web URL Recommendation Incorporating Semantic Alignment and Recurrent Neural Network," 2021 7th International Conference on Web Research (ICWR), 2021, pp. 232-237, doi: 10.1109/ICWR51868.2021.9443136.
4. K. N and Gerard Deepak "KnowSum: Knowledge Inclusive Approach for Text Summarization Using Semantic Alignment," 2021 7th International Conference on Web Research (ICWR), 2021, pp. 227-231, doi: 10.1109/ICWR51868.2021.9443149.
5. Adithya V., Gerard Deepak (2021) OntoReq: An Ontology Focused Collective Knowledge Approach for Requirement Traceability Modelling. In: Musleh Al-Sartawi A.M., Razzaque A., Kamal M.M. (eds) Artificial Intelligence Systems and the Internet of Things in the Digital Era. EAMMIS 2021. Lecture Notes in Networks and Systems, vol 239. Springer, Cham.
6. Roopak N., Gerard Deepak. (2021) KnowGen: A Knowledge Generation Approach for Tag Recommendation Using Ontology and Honey Bee Algorithm. In: Musleh Al-Sartawi A.M., Razzaque A., Kamal M.M. (eds) Artificial Intelligence Systems and the Internet of Things in the Digital Era. EAMMIS 2021. Lecture Notes in Networks and Systems, vol 239. Springer, Cham.
7. Krishnan N., Gerard Deepak. (2021) KnowCrawler: AI Classification Cloud-Driven Framework for Web Crawling Using Collective Knowledge. In the Proceedings of the EAMMIS 2021: European, Asian, Middle Eastern, North African Conference on Management and Information Systems (EAMMIS), held at Istanbul Medineyet University in association with the Coventry University, UK, March 2021, Published by Lecture Notes in Networks and Systems, Springer, Cham.
8. Arulmozhiarman, M., & Gerard Deepak (2021, March). OWLW: Ontology Focused User Centric Architecture for Web Service Recommendation Based on LSTM and Whale Optimization. In European, Asian, Middle Eastern, North African Conference on Management & Information Systems (pp. 334-344). Springer, Cham.
9. Sawarn, S., & Gerard Deepak. (2021, March). An Approach for Document Clustering Using Semantic Similarity and Whale Optimization. In European, Asian, Middle Eastern, North African Conference on Management & Information Systems (pp. 322-333). Springer, Cham.
10. Surya D., Gerard Deepak Santhanavijayan (2022) USWSBS: User-Centric Sensor and Web Service Search for IoT Application Using Bagging and Sunflower Optimization. In: Noor A., Sen A., Trivedi G. (eds) Proceedings of Emerging Trends and Technologies on Intelligent Systems. ETTIS 2021. Advances in Intelligent Systems and Computing, vol 1371. Springer, Singapore.
11. Surya D., Gerard Deepak., Santhanavijayan A. (2021) KSTAR: A Knowledge Based Approach for Socially Relevant Term Aggregation for Web Page Recommendation. In: Motahhir S., Bossoufi B. (eds) Digital Technologies and Applications. ICDDTA 2021. Lecture Notes in Networks and Systems, vol 211. Springer, Cham.

12. Surya D., Gerard Deepak, Santhanavijayan A. (2021) QFRDBF: Query Facet Recommendation Using Knowledge Centric DBSCAN and Firefly Optimization. In: Motahhir S., Bossoufi B. (eds) Digital Technologies and Applications. ICDTA 2021. Lecture Notes in Networks and Systems, vol 211. Springer, Cham.
13. Adithya V., Gerard Deepak, Santhanavijayan A. (2021) HCOFD: Hybrid Cognitive Ontology Driven Framework for Socially Relevant News Validation. In: Motahhir S., Bossoufi B. (eds) Digital Technologies and Applications. ICDTA 2021. Lecture Notes in Networks and Systems, vol 211. Springer, Cham.
14. Sawarn, S., & Gerard Deepak (2021, March). An Approach for Document Clustering Using Semantic Similarity and Whale Optimization. In European, Asian, Middle Eastern, North African Conference on Management & Information Systems (pp. 322-333). Springer, Cham.
15. Levin Varghese, G. D., & Santhanavijayan, A. (2021). A Fuzzy Ontology Driven Integrated IoT Approach for Home Automation. Digital Technologies and Applications: Proceedings of ICDTA 21, Fez, Morocco, 211, 271.
16. Manaswini, S., Gerard Deepak & Santhanavijayan, A. (2021). Knowledge Driven Paradigm for Anomaly Detection from Tweets Using Gated Recurrent Units. Digital Technologies and Applications: Proceedings of ICDTA 21, Fez, Morocco, 211, 145.
17. Gerard Deepak., Santhanavijayan A. (2021) MKSTD: Multiple Knowledge Sourcing Approach for Topic Directories Construction and Linking Web Pages Using Fusion Semantics. In the Proceedings of International Conference in Digital Technologies and Applications, 2021 held at Sidi Mohamed Ben Abdellah University Fez, Morocco, pp.211, 145, January 2021. Published as a Chapter in Motahhir S., Bossoufi B. (eds) Digital Technologies and Applications. ICDTA 2021. Lecture Notes in Networks and Systems, vol 211. Springer, Cham.
18. Aditya S., Muhil Aditya P., Gerard Deepak., Santhanavijayan A. (2021) IIMDR: Intelligence Integration Model for Document Retrieval. In: Motahhir S., Bossoufi B. (eds) Digital Technologies and Applications. ICDTA 2021. Lecture Notes in Networks and Systems, vol 211. Springer, Cham.
19. Anand S., Vijaykumar C., Gerard Deepak., Santhana Vijayan A. (2021) SentiFusion (SF): Sentiment Analysis of Twitter Using Fusion Techniques. In: Motahhir S., Bossoufi B. (eds) Digital Technologies and Applications. ICDTA 2021. Lecture Notes in Networks and Systems, vol 211. Springer, Cham.
20. Gerard Deepak., Santhanavijayan A. (2021) AnnotSemRec: An RDF Based Semantic Framework for Personalized Web Image Search. In: Abraham A., Hanne T., Castillo O., Gandhi N., Nogueira Rios T., Hong TP. (eds) Hybrid Intelligent Systems. HIS 2020. Advances in Intelligent Systems and Computing, vol 1375. Springer, Cham.
21. Surya D., and Gerard Deepak Santhanavijayan A. (2021) Ontology-Based Knowledge Description Model for Climate Change. In: Abraham A., Piuri V., Gandhi N., Siarry P., Kaklauskas A., Madureira A. (eds) Intelligent Systems Design and Applications. ISDA 2020. Advances in Intelligent Systems and Computing, vol 1351. Springer, Cham.
22. Roopak N., Gerard Deepak, Santhanavijayan A. (2021) HCRDL: A Hybridized Approach for Course Recommendation Using Deep Learning. In: Abraham A., Piuri V., Gandhi N., Siarry P., Kaklauskas A., Madureira A. (eds) Intelligent Systems Design and Applications. ISDA 2020. Advances in Intelligent Systems and Computing, vol 1351. Springer, Cham.
23. Gadamschetti S., and Gerard Deepak., Santhanavijayan A. (2021) LWOntoRec: Light Weight Ontology Based Novel Diversified Tag Aware Song Recommendation System. In: Abraham A., Piuri V., Gandhi N., Siarry P., Kaklauskas A., Madureira A. (eds) Intelligent Systems Design and Applications. ISDA 2020. Advances in Intelligent Systems and Computing, vol 1351. Springer, Cham.
24. Ramanathan N and Gerard Deepak (2022). OSIBR: Ontology Focused Semantic Intelligence Approach for Book Recommendation. In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.

25. Anirudh M and Gerard Deepak (2022). ISBRNM: Integrative Approach for Semantically Driven Blog Recommendation using Novel Measures In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.
26. Akhil S Krishnan and Gerard Deepak (2022). IntelliLegalRec: An RDF Based Metadata Driven Semantically Compliant Recommendation System for Socio-Legal Judicial Documents In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.
27. Dev Agrawal and Gerard Deepak (2022). HSIL: Hybrid Semantic Infused Learning Approach for Course Recommendation. In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.
28. Gurunam Singh Chhatwal and Gerard Deepak (2022). Integrative KnowGen: Integrative Knowledge Base Generation for Criminology as a domain of choice. In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.
29. Rashi Anubhi Srivastava and Gerard Deepak (2022). OntoOpinionMiner: An Opinion Mining Algorithm for Drug Reviews In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.
30. Shivam Sawarn and Gerard Deepak (2022). MASSTagger: Metadata Aware Semantic Strategy for Automatic Image Tagging In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.
31. Saloni Gordhan Rakholiya, Gerard Deepak and Santhana Vijayan A (2022). MRDFPD: Metadata Driven RDF based Product Discovery Framework In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.
32. Rituraj Ojha and Gerard Deepak (2022). HSCRD: Hybridized Semantic Approach for Knowledge Centric Requirement Discovery. In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.
33. Vignesh Mohanavelu, Gerard Deepak and Santhanavijayan A (2022). OntoKIQE: An Ontology Infused Approach for Knowledge Integrated Query Expansion using Semantic Intelligence. In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.
34. Siddhant Singh and Gerard Deepak (2022). OntoRecipe: An Ontology Focussed Semantic Strategy for Recipe Recommendation In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.
35. Harsh Shaw and Gerard Deepak (2022). MetaBlog:A Metadata Driven Semantics Aware Approach for Blog Tagging In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.
36. Aparna Chandramouli and Gerard Deepak (2022). OntoFusionCrop: An Ontology Centric Approach for Crop Recommendation Based on Bagging and Semantic Alignment In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.
37. Sanjeev Vijayakumar and Gerard Deepak (2022) DFE-Commerce: A Deep Learning Integrated Ontology Driven Model for E-Commerce Product Recommendation for improved Machine Intelligence In International Conference on Digital

Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.

38. R Shiddhartha and Gerard Deepak (2021). CreepOntoRet: Retrieval of Ontology Visualised With Terminologies in Creep Phenomena Observed In Materials in IWMSW-2021: First International Workshop on Multilingual Semantic Web, Uyo, Nigeria, November 18-27, 2021.

### **International Conferences Held Within India**

39. Gadamschetti, S., Gerard Deepak., Santhanavijayan, A., & Venugopal, K. R. (2022). RDRLJ: Integrating Deep Learning Approach with Latent Semantic Analysis for Document Retrieval. In *Emerging Research in Computing, Information, Communication and Applications* (pp. 999-1007). Springer, Singapore.

40. Vaish, K., Gerard Deepak., & Santhanavijayan, A. (2022). DSEORA: Integration of Deep Learning and Metaheuristics for Web Page Recommendation Based on Search Engine Optimization Ranking. In *Emerging Research in Computing, Information, Communication and Applications* (pp. 873-883). Springer, Singapore.

41. Nandhakishore, C. S., Gerard Deepak & Santhanavijayan, A. (2022). Conceptualization, Visualization, and Modeling of Ontologies for Elementary Kinematics. In *Advanced Computing and Intelligent Technologies* (pp. 15-23). Springer, Singapore.

42. D. N. Yethindra and Gerard Deepak, "A Semantic Approach for Fashion Recommendation Using Logistic Regression and Ontologies," 2021 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES), 2021, pp. 1-6, doi: 10.1109/ICSES52305.2021.9633891.

43. V. Adithya and Gerard Deepak "HBlogRec: A Hybridized Cognitive Knowledge Scheme for Blog Recommendation infusing XGBoosting and Semantic Intelligence," 2021 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), 2021, pp. 1-6, doi: 10.1109/CONECCT52877.2021.9622526.

44. Adithya, V., & Gerard Deepak. (2021, July). HBlogRec: A Hybridized Cognitive Knowledge Scheme for Blog Recommendation infusing XGBoosting and Semantic Intelligence. In *2021 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)* (pp. 1-6). IEEE.

45. Gerard Deepak, Kumar, D. N., Surya, D., Razak, K., & Venugopal, K. R. (2021, March). An Ontology-Based Semantic Approach for First Aid Prediction in Aviation Services Incorporating RBFNN Over a Cloud Server. In *International Conference on Emerging Trends and Technologies on Intelligent Systems* (pp. 49-60). Springer, Singapore.

46. Adithya, V., Gerard Deepak., & Santhanavijayan, A. (2021, March). OntoBlogDis: A Knowledge-Centric Ontology Driven Socially Aware Framework for Influential Blogger Discovery. In *International Conference on Emerging Trends and Technologies on Intelligent Systems* (pp. 37-47). Springer, Singapore.

47. Manaswini, S., & Gerard Deepak. (2021). Towards a Novel Strategic Scheme for Web Crawler Design Using Simulated Annealing and Semantic Techniques. In *Data Science and Security* (pp. 468-477). Springer, Singapore.

48. Roopak, N., & Gerard Deepak. (2021). OntoJudy: A Ontology Approach for Content-Based Judicial Recommendation Using Particle Swarm Optimisation and Structural Topic Modelling. In *Data Science and Security* (pp. 203-213). Springer, Singapore.

49. Manoj N., Gerard Deepak (2021) ODFWR: An Ontology Driven Framework for Web Service Recommendation. In: Shukla S., Unal A., Varghese Kureethara J., Mishra D.K., Han D.S. (eds) *Data Science and Security. Lecture Notes in Networks and Systems*, vol 290. Springer, Singapore.

50. Singh S., Gerard Deepak (2021) Towards a Knowledge Centric Semantic Approach for Text Summarization. In: Shukla S., Unal A., Varghese Kureethara J., Mishra D.K., Han D.S. (eds) *Data Science and Security. Lecture Notes in Networks and Systems*, vol 290. Springer, Singapore.

51. Srivastava, Rashi Anubhi, and Gerard Deepak. "PIREN: Prediction of Intermediary Readers' Emotion from News-Articles." *Data Science and Security*. Springer, Singapore, 2021. 122-130.
52. Vishal K., Gerard Deepak., Santhanavijayan A. (2021) An Approach for Retrieval of Text Documents by Hybridizing Structural Topic Modeling and Pointwise Mutual Information. In: Mekhilef S., Favorskaya M., Pandey R.K., Shaw R.N. (eds) *Innovations in Electrical and Electronic Engineering. Lecture Notes in Electrical Engineering*, vol 756. Springer, Singapore.
53. Gerard Deepak., Santhanavijayan A. (2021) OntoVidRec: A Staged Knowledge Aggregation Scheme for Annotations-Based Video Retrieval Using Ontology Matching. In: Mekhilef S., Favorskaya M., Pandey R.K., Shaw R.N. (eds) *Innovations in Electrical and Electronic Engineering. Lecture Notes in Electrical Engineering*, vol 756. Springer, Singapore
54. Ayush Kumar, A., Gerard Deepak., & Santhanavijayan, A. (2021). PolyOnto: Conceptual Modeling and Evaluation of Ontologies for Polymerization Reactions Based on XML to OWL Transfiguration. In *Advances in Automation, Signal Processing, Instrumentation, and Control* (pp. 913-925). Springer, Singapore.
55. Santhanavijayan, A., Kumar, D. N., & Gerard Deepak. (2021). A semantic-aware strategy for automatic speech recognition incorporating deep learning models. In *Intelligent System Design* (pp. 247-254). Springer, Singapore.
56. Pushpa. C.N., Gerard Deepak. Kumar, T. J. and V. K.R., "OntoDisco: Improving Web Service Discovery by Hybridization of Ontology Focused Concept Clustering and Interface Semantics," 2020 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), 2020, pp. 1-5.
57. A. Kumar A., Gerard Deepak and A. Santhanavijayan, "HeTOnto: A Novel Approach for Conceptualization, Modeling, Visualization, and Formalization of Domain Centric Ontologies for Heat Transfer," 2020 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), 2020, pp. 1-6, doi: 10.1109/CONECCT50063.2020.9198413.
58. Naresh Kumar D, Gerard Deepak, A Santhanavijayan (2020). A Novel Semantic Approach for Intelligent Response Generation using Emotion Detection Incorporating NPMI Measure, *Procedia Computer Science*, Volume 167, pp. 571-579.
59. Gerard Deepak, Naresh Kumar D, A Santhanavijayan. A Semantic Approach for Entity Linking by Diverse Knowledge Integration incorporating Role-Based Chunking, *Procedia Computer Science*, Volume 167, 2020, Pages 737-746,
60. L. Varghese, Gerard Deepak and A. Santhanavijayan, "An IoT Analytics Approach for Weather Forecasting using Raspberry Pi 3 Model B+," 2019 Fifteenth International Conference on Information Processing (ICINPRO), 2019, pp. 1-5, doi: 10.1109/ICInPro47689.2019.9092107.
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148. V. R. Lakshmi, G. Deepak, A. Santhanavijayan and S. Radha, "Knowledge Graph Curation from Text Via Ontologies," 2022 International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), Trichy, India, 2022, pp. 726-732.
149. V. L. R, G. Deepak, S. A and R. S, "MIKIDQD: Machine Intelligence and Knowledge Infused Duplicate Question Detection," 2022 International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), Trichy, India, 2022, pp. 425-429,
150. Singh, Divyanshu, and Gerard Deepak. "IPR: Integrative Policy Recommendation Framework Based on Hybrid Semantics." Iberoamerican Knowledge Graphs and Semantic Web Conference. Cham: Springer International Publishing, 2022.

151. Mohnish, S., Deepak, G., Praveen, S.V., Sheeba Priyadarshini, J. (2022). DKMI: Diversification of Web Image Search Using Knowledge Centric Machine Intelligence. In: Villazón-Terrazas, B., Ortiz-Rodríguez, F., Tiwari, S., Sicilia, MA., Martín-Moncunill, D. (eds) Knowledge Graphs and Semantic Web . KGSWC 2022. Communications in Computer and Information Science, vol 1686. Springer, Cham.

152. R. Vaibhava Lakshmi, G. Deepak, A. Santhanavijayan and S. Radha, "Search for Social Smart Objects Constituting Sensor Ontology, Social IoT and Social Network Interaction," 2022 Sixth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Dharan, Nepal, 2022, pp. 60-65.

153. Palvannan, S., Deepak, G. (2022). HIAS: Hybrid Intelligence Approach for Soil Classification and Recommendation of Crops. In: Ortiz-Rodríguez, F., Tiwari, S., Sicilia, MA., Nikiforova, A. (eds) Electronic Governance with Emerging Technologies. EGETC 2022. Communications in Computer and Information Science, vol 1666. Springer, Cham.

Note: There are about 175+ Conference papers coauthored by me, Kindly visit my google scholar profile for recent updates.

### National Conferences:

1. **Gerard Deepak** and Rushikeshav G presented a poster titled "Enhanced and Privacy Induced Web Page Recommendation System" in the National Conference on Challenges and Opportunities in Computer Engineering NCCOCE 18' held on 8th and 9th March 2018, Department of CSE, CHRIST University, Bangalore. (Best Poster Award).
2. **Gerard Deepak** presented a paper titled "Recommender System with threshold based Nearest Neighborhood Approach" in the National Conference on Challenges and Opportunities in Computer Engineering NCCOCE 18' held on 8th and 9th March 2018, Department of CSE, CHRIST University, Bangalore.
3. **Gerard Deepak** and Pushpa C N presented a paper titled "A Context Based Hybridized Framework for Web Image Recommendation incorporating Ontology Semantics and Semantic Agents" in the National Conference on Challenges and Opportunities in Computer Engineering NCCOCE 18' held on 8th and 9th March 2018, Department of CSE, CHRIST University, Bangalore.
4. Kiran Eapen Philip, Saurabh Kumar and **Gerard Deepak** presented a paper titled "SecBrowser: A Light Weight Extra Secure NextGen Web Browser" in the National Conference on Challenges and Opportunities in Computer Engineering NCCOCE 18' held on 8th and 9th March 2018, Department of CSE, CHRIST University, Bangalore.
5. **Gerard Deepak** and Sheeba Priyadarshini J "An Agent Based Context Aware Semantic Tag Recommender incorporating Adaptive Normalized Compression Distance" in the Proceedings of the Thirteenth Annual National Conference Kagada2016 organized by the Department of Computer Science and Engineering, UVCE in collaboration with the IEEE Bangalore Section held on 21st Oct 2016. (Won 1st place and was awarded the Best Paper)
6. **Gerard Deepak** and Md. Zakhir Ameen "An Enhanced Constraint Aware Semi-Supervised Learning Model for Data Clustering using SVM and Normalized Pointwise Mutual Information" in the Proceedings of the Seventh National Level Conference on Emerging Trends in IT- eit16 organized by the Department of Computer Science, Christ University, Bangalore held on Feb 23rd 2016, pp.62-67, ISBN: 978-93-82305-83-5. (Won the Best Paper Award)
7. **Gerard Deepak** "Appraised and Transformed Semantic Wiki Model for Collaborative Ontology Defining" in a UGC Sponsored National Conference on Recent Trends in Computer Science (NCRTS-2015) organized by Department of Computer Science, University College of Science, Tumkur University, Tumkur held on Oct 8th 2015 (Presented as a Poster).
8. **Gerard Deepak** "Human Intervention for Path Planning of an Autonomous Robot" in the proceedings of the Twelfth Annual National Conference Kagada2015 organized by the Department of Computer Science and Engineering, UVCE in collaboration with the IEEE UVCE and TEQUIP II held on 9th Oct 2015.
9. **Gerard Deepak** "Spatial and Geographical Tag Recommendation System for Personalized Community Photos in an Online Social Network" in the proceedings of the Twelfth Annual National Conference Kagada2015 organized by the Department of Computer Science and Engineering, UVCE in collaboration with IEEE UVCE and TEQUIP II held on 9th Oct 2015.

10. **Gerard Deepak** "Optimized Web Search for Achieving User Privacy" in the Twelfth Annual National Conference Kagada2015 organized by the Department of Computer Science and Engineering, UVCE in collaboration with IEEE UVCE and TEQUIP II held on 9th Oct 2015.
11. Presented a paper titled "SemanticRet: A New-Age Semantic Web Approach for Strategic Choice Based Retrieval under a Highly Dynamic Environment" in CRITIQUE, EFFIGY EVOLUTION 2K15 organized by the Department of Studies in Computer Science, University of Mysore, Manasagangothri, Mysuru held on 27th of November 2015.
12. Won the Best Paper for "P3Tagger: Proficient, Precise and Preferential Blog Tagger with Low Tag Redundancy incorporating Content Based Validation" in CRITIQUE, EFFIGY EVOLUTION 2K15 organized by the Department of Studies in Computer Science, University of Mysore, Manasagangothri, Mysuru held on 27th of November 2015.
13. Presented a paper titled "Evaluating the Performance of a Web Application using actiWATE" in CRITIQUE, EFFIGY EVOLUTION 2K15 organized by the Department of Studies in Computer Science, University of Mysore, Manasagangothri, Mysuru held on 27th of November 2015.
14. Presented a paper titled "A New Framework for Processing of Ontologies incorporating Big Data Analytics" in CRITIQUE, EFFIGY EVOLUTION 2K15 organized by the Department of Studies in Computer Science, University of Mysore, Manasagangothri, Mysuru held on 27th of November 2015.
15. Presented a paper titled "Robust Model for Dynamic Opinion Mining and Sentiment Analysis to Predict the Quality of Pharmaceutical Drugs Based on Users' Review" in CRITIQUE, EFFIGY EVOLUTION 2K15 organized by the Department of Studies in Computer Science, University of Mysore, Manasagangothri, Mysuru held on 27th of November 2015.
16. Presented a paper titled "SocioInformatic Cloud: A Cloud Computing Model for Leveraging and Sharing Resources Dynamically on Social Networks" in CRITIQUE, EFFIGY EVOLUTION 2K15 organized by the Department of Studies in Computer Science, University of Mysore, Manasagangothri, Mysuru held on 27th of November 2015.
17. Presented a paper titled "Modeling Domain Specific Ontologies Based on Dynamic Monitoring Using Intelligent Agents" in CRITIQUE, EFFIGY EVOLUTION 2K15 organized by the Department of Studies in Computer Science, University of Mysore, Manasagangothri, Mysuru held on 27th of November 2015.

## Conference Attended

**150+ Conferences in India and Abroad.**

### In the Program Committee of the following Conferences:

1. International Semantic Intelligence Conference ISIC 2021 in Collaboration with NIT Kurukshetra and University of Lübeck, Germany.
2. International Semantic Intelligence Conference ISIC 2022 in Collaboration with NIT Kurukshetra and University of Lübeck, Germany.
3. International Conference on Computational Methods and Data Engineering, ICCMDE 2021, 25-26 Nov, 2021, VIT Vellore.
4. International Conference on Big Data, Machine Learning and IoT, (BMLI 2020), December 12~13, 2020, Dubai, UAE
5. 2nd International Conference on Cloud, Big Data and Web Services (CBW 2021), July 24-25, 2021, London, United Kingdom
6. Program Committee Member of the Third Iberoamerican Knowledge Graph and Semantic Web Conference (Indo), 22-24 November 2021, Texas A & M University, Kingsville
7. IWMSW-2021: First International Workshop on Multilingual Semantic Web, Uyo, Nigeria, November 18-27, 2021.

## **Session Chair for the Following Conferences:**

8. Chaired a Session in the 2nd IEEE International Conference for Women in Innovation, Technology, and Entrepreneurship (ICWITE-2024) organized by IEEE Women in Engineering Affinity Group Bangalore Section at Vemana Institute of Technology, Bangalore.
9. Chaired a Session technical session online during the 22nd International Conference on Hybrid Intelligent Systems held on December 13-14, 2022.
10. Chaired a Session technical session online during the 22nd International Conference on Hybrid Intelligent Systems held on December 13-14, 2022.
11. Served as a Session Chair in the 19th International Conference on Information Assurance and Security and 19<sup>th</sup> International Conference on Soft Computing and Pattern Recognition 2023 held on De a session during the International Conference on December 13-14, 2023.
12. Served as a Session Chair Data Science Computation and Security (IDSCS 2022) held from 11th -12th February 2022, by the Department of Data Science, CHRIST (Deemed to be University), Pune Lavasa Campus - 'The Hub of Analytics'.
13. Served as a Session Chair in the 22nd International Conference on Intelligent Systems Design and Applications held on December 12-13, 2022 organized by the MIR Labs, USA.
14. Chaired a technical session during the 4th International Conference on Data Science, Computation and Security (IDSCS-23) Organised by the CHRIST (Deemed to be University), Kengeri Campus, Bangalore, in technical association with Symbiosis University of Applied Sciences, Indore, and The Tejas Scientific Researcher Foundation, India from November 02-04, 2023.
15. Chaired a technical session during the 4th International Conference on Data Science, Computation and Security (IDSCS-23) Organised by the CHRIST (Deemed to be University) Ghaziabad Campus in technical association with The Tejas Scientific Researcher Foundation, India in November 2024.
16. Session Chair for the International Conference of Data Science, Computation and Data Security 2021, organized by CHRIST (Deemed to be University), Lavasa Campus.
17. Session Chair and Moderator for the ICDTA 2022 In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.
18. Session Chair and Moderator for the ICDTA 2023 In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.
19. Session Chair and Moderator for the ICDTA 2024 In International Conference on Digital Technologies and Applications, Faculty of Science, Laboratory LIMAS in Sidi Mohamed Ben Abdellah University, Fez, Morocco, and the SMEEA Association.

## **Co-Ordinator/ TPC Chair/ Organizing Chair for the Following Conferences:**

1. Co-Ordinator for the 16th International Conference on Information Processing (ICInPro-2021) Organized by the Dept. of CSE, University Visvesvaraya College of Engineering, Bangalore University, Bangalore.
2. Served as a TPC Chair International Conference on Computing for Sustainability and Intelligent Future (Comp-SIF) organized by BMS Institute of Technology and Management Bengaluru in association with TCS.
3. Serving as an Organizing Chair in the 6th International Conference on Data Science, Computation and Security (IDSCS 2025) to be held on 14-15, November'2025

## Awards & Achievements

1. **Featured in the top-2% Global scientist list by Stanford** based on c-score for the area of Artificial Intelligence for the year 2022.
2. **Featured in the top-2% Global scientist list by Stanford** based on c-score for the area of Artificial Intelligence and Image Processing for the year 2023.
3. **Featured in the top-2% Global scientist list by Stanford** based on c-score for the area of Artificial Intelligence and Strategic Studies for the year 2024.
4. Awarded the Best Young Researcher Award by National Institute of Technology, Tiruchirappalli for the academic year 2021-2022.
5. Awarded the Best Budding Researcher Award by National Institute of Technology, Tiruchirappalli for the academic year 2020-2021.
6. Awarded the Best Budding Researcher Award by National Institute of Technology, Tiruchirappalli for the academic year 2019-2020.
7. Achieved a h-index of 28 on Google Scholar as on 25/08/2025 and

## Academic Activity

1. Board of Studies Co-ordinator PG at BMS Institute of Technology Studies.
2. Board of Studies/ Curriculum Development Contributor and Reviewer at Manipal Institute of Technology Bengaluru
3. Time-Table Co-ordinator at Manipal Institute of Technology Bengaluru
4. Board of Examiner External Member at University of Visvesvaraya College of Engineering University Board and at Bangalore University Board for UVCE from July 2023.

## Faculty Development Activity/Workshops/ Other Outreach Activities

1. NSS Co-Program Officer at Manipal Institute of Technology Bengaluru from Oct 2022 to Jan 2024 (1.4 years).
2. Library Co-Coordinator at the Institute Level from Aug 2022- Jan 2024 (1.6 years)
3. Time-Table Coordinator at the Department of CSE, MIT Bengaluru from June 2022 to Present (Handled Time-Table for CSE and CSE (AI) composed of 20 sections in the first year, 8 sections in the second year, 5 sections in the third year and 2 sections in the final year.
4. Department Strategic Plan Coordinator from Aug 2023 to Present.
5. Appointed as a Board of Examination External Expert at University of Visvesvaraya College of Engineering by the Controller of Examination for a period of 1 year starting from 1 June, 2024. (External).
6. Was a Coordinator for International Conference on Information Processing ICInPro 2021 held at University Visvesvaraya College of Engineering, Bangalore University, Bangalore.
7. Was appointed as an External Examiner at University of Visvesvaraya College of Engineering for practical lab examination on 30<sup>th</sup> March 2024 for the PPS Lab with code 21ESPPL115.

8. Was appointed as an External Examiner at UVCE, Bangalore University for practical lab examination on 23<sup>rd</sup> Feb 2024 for the Microprocessors using ARM Lab with code 21CIPC046L.
9. Was appointed as an External Examiner for B.Tech Miniprojects of Final Year at the Dayananda Sagar College of Engineering Bangalore for the lab with code 19CS72CPRI on 9<sup>th</sup> Jan 2024.
10. Was appointed as an External Examiner for B.Tech 3<sup>rd</sup> Year Compiler Design Laboratory with code 15CS373 at School of Engineering, Dayananda Sagar University (Kudlu Gate Campus) on 11<sup>th</sup> May 2018.
11. Was appointed as an External Examiner for B.Tech Third Year Operating Systems Laboratory at School of Engineering, Dayananda Sagar University (Kudlu Gate Campus) on 14<sup>th</sup> May 2018.
12. Was appointed as an External Examiner at University of Visvesvaraya College of Engineering for practical examination on 22<sup>nd</sup> Dec 2023 for the PPS Lab with code 21CSPPL115.
13. Was appointed as an External Examiner at UVCE, Bangalore University for practical lab examination from 18<sup>th</sup> to 20<sup>th</sup> Dec 2023 for the Internet of Things Laboratory with code 18CIPC705.
14. Was appointed as an External Examiner at UVCE, Bangalore University for practical lab examination from 15<sup>th</sup> to 18<sup>th</sup> Dec 2023 for the Internet of Things Laboratory with code 18ISPC705.
15. Was Appointed as an External Examiner for Valuation of PPS Theory from 26<sup>th</sup> to 29<sup>th</sup> Dec 2023 at University of Visvesvaraya College of Engineering, Bangalore
16. Was Appointed as an External Examiner for Re-Valuation of PPS Theory on 24<sup>th</sup> Feb 2024 at University of Visvesvaraya College of Engineering, Bangalore
17. Organized a One Week Industry-Interfaced Bootcamp on “Full Stack Development” at the Department of Computer Science and Engineering, Manipal Institute of Technology Bengaluru along with Dr. Srinidhi N N.
18. Completed a 5-day Online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 22 May to 26 May 2023.
19. Completed a 5 Day Online Faculty Development Program on “Pioneering the Future of Blockchain Technology” held from April 29 to May 3, 2024, organized by the Department of Computer Applications, National Institute of Technology Tiruchirappalli
20. Delivered a talk on Quality Research Paper Writing as a part of an online Workshop in the Department of Data Science, CHRIST (Deemed to be University), Pune Lavasa Campus as a part of “The Hub of Analytics” series on 23 May 2022.
21. Delivered an Expert Lecture titles “Knowledge Graph Induced Learning for Early Convergence to Optimality” as a part of the five days FDP on “Smart Grid Features and Application of IoT, AI, Blockchain and Cybersecurity” at the Academic Staff College in association with School of Electrical Engineering, VIT Vellore from 10<sup>th</sup> to 14<sup>th</sup> Oct 2022.

## Contact Details

*For Research Collaborations and Students Aspirants as Research Interns can contact me.*

*“The heart of the prudent getteth knowledge; and the ear of the wise seeketh knowledge.”* Wisdom involves active pursuit—listening and learning- **Proverbs 18:15**