# DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
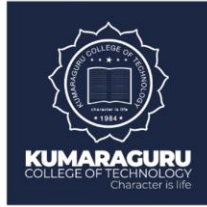
## CONFERENCE PUBLICATIONS BY FACULTY MEMBERS (2022-2023)

| Name | Publication |
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| **Dr. D. Sudharson** | • **Dr. Sudharson D** along with Arun Kumar B, Aman Kumar Duby presented a paper titled "A Novel Ai Framework for Personalisation and Customization of Product Prices through Bigdata Analytics" in International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF),1,1,45444,2023,https://ieeexplore.ieee.org/document/10083978, 2023.<br><br>• **Dr. Sudharson D** presented a paper title "A novel Sentimental Analysis framework using Gated Recurrent Units for Text Transliteration" in the 2nd International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA),,,45444,2023,IEEE, 2023.<br><br>• **Dr. Sudharson D** along with Vignesh, K.; Suganthi, B.; Arunkkumar, B.; Vijay, Shreya; Logita, S presented a paper titled "A comparative study in predictive analytic frameworks in big data" in the INTERNATIONAL CONFERENCE ON INNOVATIONS IN ROBOTICS, INTELLIGENT AUTOMATION AND CONTROL<br><br>• **Dr. Sudharson D** along with P. S. Kailas, K. Vignesh, T. Senthilnathan, V. Poornima, Shreya Vijay presented a paper titled "Software Quality Prediction by CatBoostFeed-Forward Neural Network" in Software Engineering, System Reliability and Security.<br><br>• **Sudharson, D**; Divya, P; Saranya, K; Dubey, Aman Kumar; Vijay, Shreya; Mayuri, G; A Novel AI Framework for Assuring Data Sustainability in Health Care Dataset2023 Third International |

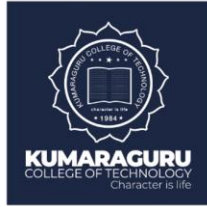| | |
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| | Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS)161-1662023IEEE.<br><br>• **Sudharson, D;** Vaishnavi, KS Thrisha; Hariprakassh, S; Abiram, B; Saranya, K; Tanwar, Poonam; An Abstractive Summarization and Conversation Bot using T5 and its Variants2023 International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT)432-4372024IEEE.<br><br>• **Sudharson, D;** Kumar, D Satheesh; Dubey, Aman Kumar; Kumar, B Arun; Vaishali, V; Balavedhaa, S; Implementing Catboost Algorithm for Allergen Cross Contamination Detection in Food Industry2023 International Conference on Emerging Research in Computational Science (ICERCS)453832024IEEE.<br><br>• **Sudharson, D.;** Vignesh, K.; Suganthi, B.; Arunkkumar, B.; Vijay, Shreya; Logita, S.; A comparative study in predictive analytic frameworks in big dataINTERNATIONAL CONFERENCE ON INNOVATIONS IN ROBOTICS, INTELLIGENT AUTOMATION AND CONTROL29141433742023https://pubs.aip.org/aip/acp/article-abstract/2914/1/050006/2929641/A.<br><br>• **Sudharson, D;** A novel Sentimental Analysis framework using Gated Recurrent Units for Text Transliteration2023 2nd International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA)454442023IEEE. |
| **Dr. D. Sudharson**<br>**Mr. A. Bhuvaneshwaran** | • **Dr. Sudharson D** along with **Bhuvaneshwaran A**, Kalaiarasan TR; kumar D, Satheesh presented a paper titled "A Multimodal AI Framework for Hyper Automation in Industry 5.0"in the 2023 International Conference on Innovative Data Communication Technologies and Application (ICIDCA),1,1,282-286,2023,https://ieeexplore.ieee.org/document/10099581. |
| **Ms. P. Antony Seba** | • **P. Antony Seba**, R. Selvakumaran and Dharan Raj presented a paper titled "Predictive Analytics for Fake Currency Detection" in |

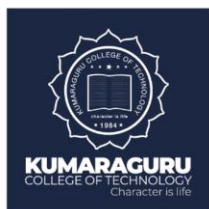| | the International Conference on Intelligent Vision and Computing, National Institute of Technology, Agartala, 26th November, 2022. |
| | • **Antony Seba, P.,** and J. V. Bibal Benifa. "Perceptive Analysis of Chronic Kidney Disease Data Through Conceptual Visualization." International Conference on Computational Intelligence in Pattern Recognition **(IIEST, Shibpur)**. Singapore: Springer Nature Singapore, 2022**. (Scopus)** |

**Journal Publications:**

| **2024-2025** | • Seba, P.A., Benifa, J.V.B. Density Based Regularization Model for Effective Forecasting of Stage Transition in Chronic Kidney Disease. Wireless Pers Commun 136, 1497–1516 (2024). https://doi.org/10.1007/s11277-024-11307-9. (SCI) |
| | • Mohan Krishnan O, Srinithi J, Sri Harshitha P, Ilamughi M, and Antony Seba P. Gesture Vault: Revolutionizing ATMs with Touchless Technology [J]. Int J Performability Eng, 2024, 20(7): 413-420.(Scopus) |
| **2023-2024** | • Ms. Antony Seba P published a paper titled "Hybrid Outlier Detection Strategy and Weighted Decision Matrix Ordinal Classifier for CKD Severity Prediction." in International Journal of Performability Engineering 19.2 (2023). (Scopus) |
| | • D. Sudharson, Amitha, K. (2023). A novel AI framework for anomaly detection and predictive maintenance in heterogenous networks. *International Journal of Innovative Research in Computer and Communication Engineering*, *11*(7), 9083-9086. (Scopus) |
| | • Sudharson, D., Malik, R., Sathya, R. R., Vaishali, V., Balavedhaa, S., & Gautham, S. (2024). A novel adaptive framework for immersive learning |

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| | using VR in education. *Transforming education with virtual reality*, 1-26. (Scopus) <br><br> • Chandrakala D, Gayathri M, Ifthika K, Shobha A, A Deep learning Aprroach On Cervical Spine Fracture Detection, International Journal of Novel Research and Development (IJNRD), Volume 8, Issue 6 June 2023, ISSN: 2456-4184. <br><br> • Chandrakala, D. Pradeepa, P. Meyyammai, M. Mohamed, Aakil, S. (2023, August). Personality Trait-Aware Educational Suggestion Platform. International Journal of Computer Applications. 185(29), 46-54. |
| **2022-2023** | • Ms. Antony Seba P published a paper titled "A Hybrid Analytic Model for the Effective Prediction of Different Stages in Chronic Kidney Ailments" in Wireless Pers Commun 126, 581–604 (2022). https://doi.org/10.1007/s11277-022-09759-y (SCI) <br><br> • Ms. Antony Seba P published a paper titled "Relevancy contemplation in medical data analytics and ranking of feature selection algorithms." In ETRI Journal 45.3 (2023): 448-461. (SCI). <br><br> • D. Sudharson, Kumar, A. (2022). Impact of Classification Algorithms on Cardiotocography Dataset for Fetal State Prediction. Asian Journal of Computer Science Engineering (AJCSE), 7(2). (Scopus) |

**Book Chapter Publications:**

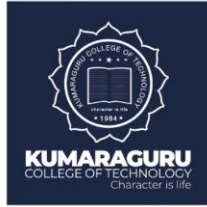| 2023-2024 | <ul><li>Dr. Sangeetha, S. published a book chapter titled "Privacy-Preserving Federated Learning for Healthcare Data." Privacy Preservation and Secured Data Storage in Cloud Computing, edited by Lakshmi D. and Amit Kumar Tyagi, IGI Global, 2023, pp. 178-196. https://doi.org/10.4018/979-8-3693-0593-5.ch008, (Scopus indexed).</li><li>Akshita Sakshi, J.V. Bibal Benifa, **P. Antony Seba\***, "Supervised Learning Models for Diagnosing Severity of Cirrhosis Disease", CRC Press, Taylor & Francis **(Scopus)**</li><li>Sudharson, D., Kailas, P. S., Vignesh, K., Senthilnathan, T., Poornima, V., & Vijay, S. (2023). Software Quality Prediction by CatBoostFeed-Forward Neural Network in Software Engineering. In *System Reliability and Security* (pp. 207-218). Auerbach Publications.</li></ul> |
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**Book Publications:**

- Mr. Bhuvaneshwaran A, published a book titled "Artificial Intelligence" in November 2022.
- Dr. D. Sudharson published a book titled "Verticals of Machine Learning in Interview Perspectives ", 2021/7, Publisher ISBN: 9789396373207

**Patents published:**

- Dr. Sudharson D has filed a patent tiled "A FRAMEWORK FOR CARBON DUST ABSORPTION IN LASER PRINTERS USING LOWCOST CARBON ACTIVATED FILTERS" on 29 Dec 2023, No: 202341089589  Applicaton Number: TEMP/E1/103805/2023-CHE

**Industry Projects:**

- The department has undertaken 9 Industry projects with notable industires like Bulls & Bears Advisory, Wise Works, PFSI Solutions, Nelsonin Research Private Limited, Adroit, Axyya, DRDO, Sutherland Global Services Private Limited, Hyperverge, WNS Global Services Pvt. Ltd and MIST Solutions in the academic year 2022-2023.

**Recognition**

| 2024-2025 | ο **Dr.S.Sangeetha r**eceived "**Start Contributor**" Award from KCIRI during KCIRI Annual Day 2024. <br><br> ο **Dr.S.Sangeetha** received "**Impactful Educator**" Award from KCT for the academic year 2023 - 2024. <br><br> ο **Dr.S.Sangeetha** obtained **Best mentor** award during Thiran Thedal Thiruvizha for the project titled "**Smart Mushroom Farming**", from Kumaraguru School of Innovation, Nov 2023, KCT. <br><br> ο **Dr.S.Sangeetha Research Paper - "Automated real-time infection detection in oyster mushroom using smart farming system"** Received **<span style="color:red">Best Paper Award (2024)</span> in Data Learning Track** from **National Institute of Technology**, Pudhucherry. |
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