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10. **Publication details for last five years** :

1. Sharmila, S., and S. Vijayarani. "Association rule mining using fuzzy logic and whale optimization algorithm." *Soft Computing* (2020): 1-16.
2. Janani, R., and S. Vijayarani. "Automatic text classification using machine learning and optimization algorithms." *Soft Computing* (2020): 1-17.
3. Vijayarani, S., E. Suganya, and C. Navya. "A Comprehensive Analysis of Crime Analysis Using Data Mining Techniques." (2020).
4. Sivamathi, C., and S. Vijayarani. "A utility-based approach for business intelligence to discover beneficial itemsets with or without negative profit in retail business industry." *International Journal of Business Intelligence and Data Mining* 16, no. 3 (2020): 361-380.
5. Tharini, V. Jeevika, and S. Vijayarani. "IoT in Healthcare: Ecosystem, Pillars, Design Challenges, Applications, Vulnerabilities, Privacy, and Security Concerns." In *Incorporating the Internet of Things in Healthcare Applications and Wearable Devices*, pp. 1-22. IGI Global, 2020.
6. Vijayarani, S., A. Sakila, and A. Revathi. "A Comprehensive Review on Handwriting Character Recognition." (2020)
7. Janani, R., and S. Vijayarani. "Text document clustering using spectral clustering algorithm with particle swarm optimization." *Expert Systems with Applications* 134 (2019): 192-200.
8. Vijayarani, S., and R. Janani. "Text mining: open source tokenization tools-an analysis." *Advanced Computational Intelligence: An International Journal (ACII)* 3, no. 1 (2016): 37-47.
9. Vijayarani, S., and S. Maria Sylviaa. "Comparative Analysis of Dimensionality Reduction Techniques." *International Journal of Innovative Research in Computer and Communication Engineering* 4, no. 1 (2016): 23-29.
10. Vijayarani, S., and M. Janakiram. "Genetic Algorithm Based Confidential Data Protection in Privacy Preserving Data Mining." (2016)
11. Vijayarani, S., and A. Sakila. "A Survey on Word Spotting Techniques for Document Image Retrieval." *International Journal of Engineering Applied Sciences and Technology* 1, no. 8 (2016): 38-42.

12. Chokkalingam, Sivamathi, and S. Vijayarani. "Utility Mining Algorithms-A Comparative Study." *Journal of Applied Information Science* Volume 4, no. 1 (2016).
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14. Sakila, A., and S. Vijayarani. "Firefly Based Word Spotting Technique for Searching Keywords from Cursive Document Images." In *International Conference on Intelligent Data Communication Technologies and Internet of Things*, pp. 187-196. Springer, Cham, 2019.
15. Vijayarani, S., and S. Dhayanand. "Liver disease prediction using SVM and Naïve Bayes algorithms." *International Journal of Science, Engineering and Technology Research (IJSETR)* 4, no. 4 (2015): 816-820.
16. Sakila, A., and S. Vijayarani. "A hybrid approach for document image binarization." In *2017 International Conference on Inventive Computing and Informatics (ICICI)*, pp. 645-650. IEEE, 2017.
17. Janani, R., and S. Vijayarani. "An efficient text pattern matching algorithm for retrieving information from desktop." *Indian Journal of Science and Technology* 9, no. 43 (2016): 1-11.
18. Balakumar, Janani, and S. Vijayarani. "An Improved Bisecting K-Means Algorithm for Text Document Clustering." *International Journal of Knowledge Based Computer Systems* 4, no. 2 (2016).
19. Sakila, A., and S. Vijayarani. "Skew Detection and Correction in the Document Image." *International Journal of Innovative Research in Science, Engineering and Technology* 6, no. 8 (2017): 0975-888.
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