

## **Dr. Prableen Kaur**

### **Dean, Faculty of Computer Applications**

Dr. Prableen Kaur is a distinguished academic leader and a visionary in the field of computer science and applications. With over 13 years of experience in academia, she brings a wealth of knowledge, expertise, and innovative thinking to the Department of Computer Applications.

### **Educational Background**

Dr. Prableen Kaur holds a Ph.D. in Data Mining & Machine Learning from DAV University, Jalandhar, where their groundbreaking research in “Design and Analysis of Diagnostic Techniques for Detecting Human Psychological Disorders using Machine Learning and Soft Computing Techniques” earned them recognition in the academic community. She also possesses a Master's degree in Computer Applications and a Bachelor's degree in Science specialization in Computer Applications, both of which laid the foundation for their illustrious career in computer science.

### **Professional Experience**

Before joining GMN College, Ambala Cantt, Dr. Prableen Kaur held key academic and leadership positions at Shri Atmanand Jain Institute of Management & Technology, Ambala City. This blend of academic rigor and practical experience enables her to bridge the gap between theoretical knowledge and its application in the real world.

### **Research and Publications**

A prolific researcher, Dr. Prableen Kaur has published numerous papers in prestigious journals, conferences, and patent work. Her research interests include Big Data, Machine Learning, Soft Computing, and Explainable Artificial Intelligence. Her work has significantly contributed to advancements in healthcare for the diagnosis of mental health disorders such as depression and anxiety. Also, she continues to explore new frontiers in computer science.

### **Key Researches**

- Kaur P. & Sharma M. Published a Patent entitles “**Soft Computing based smart and Advanced Depression Diagnostic system and Method**” dated December 2021.
- Kaur P, Sharma M. **A novel and hybrid Whale Optimization with Restricted Crossover and Mutation based Feature Selection Method for Anxiety and Depression.** Psychiatria Danubina. Vol 35(3):355-368;2023(**Scopus Indexed Journal**).
- Sharma, M., Kaur, P. **A Comprehensive Analysis of Nature-Inspired Meta- Heuristic Techniques for Feature Selection Problem.** Archives of Computational Methods in Engineering. Vol.-28, 1103–1127; 2021. (**SCI Indexed Journal, Impact Factor : 7.302**)

- Kaur P., Gautam R. and Sharma M **Feature Selection for Bi-objective Stress Classification using Emerging Swarm Intelligence Metaheuristic Techniques**. In: Gupta, D., Polkowski, Z., Khanna, A., Bhattacharyya, S., Castillo, O. (eds) Proceedings of Data Analytics and Management . Lecture Notes on Data Engineering and Communications Technologies, vol 91. Springer, Singapore.
- Kaur P. and Sharma M. **A Smart and Promising Neurological Disorder Diagnostic System: An Amalgamation of Big Data, IoT, and Emerging Computing Techniques**. Intelligent Data Analysis: From Data Gathering to Data Comprehension, Chapter 12; 2020. (Wiley)
- Kaur P and Sharma M: **Big Data and Machine Learning Based Secure Healthcare Framework**. Presented In International Conference on Computational Intelligence and Data Science (ICCIDS 2018) at The NorthCap University, Gurgaon on April 2018. (Published in Proceedia)
- Kaur P. & Sharma M., **A Survey on Using Nature Inspired Computing for Fatal Disease Diagnosis**. Presented in International Conference on Innovations in Computing on December 2017. Published in International Journal of Information System Modeling and Design, Vol. 8 (2); 2017 (Scopus Indexed Journal)
- Kaur P and Sharma M: **Diagnosis of Human Psychological Disorders using Supervised Learning and Nature-Inspired Computing Techniques: A Meta-Analysis**. Journal of Medical Systems. Vol 43(204); 2019. (SCI Indexed Journal, Impact Factor : 4.460)

### **Awards and Recognition**

Dr. Prableen Kaur has been honored with the award of Outstanding Course Coordinator by Prep n Gain in recognition of her contributions to the field of computer science and education. Also, an Appreciation Award is honored by Sh. Aseem Goel Ji (MLA) for Coordinating the event “Mera Aasmaan- Career Fest 2023”.

### **Contact Information**

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