

Faculty Profile

Name: **Dr. S. Vairachilai**

Designation: Assistant Professor

Teaching areas: Data Science, Machine Learning, Data Mining, Cryptography and Network Security, Computer Programming, UNIX Operating System, Data Structure and Algorithms.

Research interests: Machine Learning, Data Science, Recommender System, Social Network Analysis

Education: Ph.D-Information and Communication Engineering, Anna University, Chennai, 2018.

M.Tech -Computer Application, Kalasalingam University, Tamilnadu, 2011.

MCA -Computer Application, Madurai Kamaraj University, Tamilnadu 2009.

B.Sc -Physics, Madurai Kamaraj University, Tamilnadu, 1997.



Total Professional Experience: (Total 11 years)

1. 2016–till date : Assistant Professor, Faculty of Science & Technology, IFHE, Hyderabad .
2. 2015 –2016 : Faculty Associate, Faculty of Science & Technology, IFHE, Hyderabad.
3. 2011 – 2015 : Assistant professor, N.P.R College of Engineering and Technology, TN.
4. 2009 – 2010 : Lecturer ,Kalasalingam University, Krishnankoil, TN.

Number of Patents : 4

Research / Selected Publications:

1. Vairachilai S, Vamshidharreddy, Avvari Sai Saketh, Gnanajeyaraman R, Student's Academic Performance Prediction Using Machine Learning Approach, International Journal of Advanced Science and Technology, Vol.29, No.9s, pp.6731 – 6737, 2020. (SCOPUS Indexed).
2. Vairachilai S, Shubhangi V Urkude, Gnanajeyaraman R, Machine Learning Approach for Predicting Body Fat, International Journal of Psychosocial Rehabilitation, Vol.24, No.6, April 2020. (SCOPUS Indexed).
3. S.Vairachilai, "Comparative Analysis of Community Detection Algorithms on Complex Network Based on Modularity", Journal of Computational and Theoretical Nanoscience, Vol.15, No. xx, pp.1-7, 2018. (SCOPUS Indexed).
4. S. Vairachilai, M. K. Kavitha Devi and M. Raja, "Analysis Of Statistical And Structural Properties Of Complex Networks With Random Networks", Applied Mathematics & Information Sciences, Vol. 11, No. 1, pp.1-9, 2017.(SCI Indexed).
5. S. Vairachilai, Shubhangi Urkude & J. Hemalatha, "A Survey on Recommendation System: Collaborative Filtering", Journal of Advanced Research in Dynamical & Control Systems, Vol. 10, No.06, 2018. (SCOPUS Indexed).
6. KarpagaSelvi Subramanian, S.Vairachilai& Tsadkan Gebremichael, "Features Extraction and Dataset preparation for Grading of Ethiopian Coffee Beans using Image Analysis Techniques", Information and Communication Technology for Intelligent Systems, Vol.1 & 2, 2018. (583-594.(Springer-SCOPUS Indexed).
7. S.Vairachilai, K. M. Ponsurya, and R. Poornima Priyanka, "Transparent user identity and overcoming a Sybil attack for secure social networks", Soft-Computing and Networks Security, IEEE, pp. 1 – 4, Feb, 2015. (SCOPUS Indexed).
8. S. Vairachilai, M. K. Kavithadevi, and R. Gnanajeyaraman, "Public Key Cryptosystems using Chebyshev Polynomials Based on Edge Information", Computing and Communication Technologies, IEEE, pp. 243 – 245, 2014. (SCOPUS Indexed).