

Faculty Profile

Personal Information

Name	Dr.P. KAYAL
Experience	13 years
Email Id	kayal.p@bvrithyderabad.edu.in
Area of Specialization	Data Science Applications, Machine Learning Algorithm



Educational Qualifications

Doctoral Degree	Ph.D.	Computer Science
PG Degree	M.Tech.,	Computer & Information Technology
	M.Sc.,	Computer Science
UG Degree	B.Sc.,	Computer Applications

Publications

Book Chapters

1. Contributed a chapter in the book entitled “IoT and Big Data: Next Generation Intelligence and Security”- CRC PRESS - TAYLOR & FRANCIS GROUP- **SCOPUS**.
2. Contributed a chapter in the book entitled “Exploratory Data Analytics for healthcare”- CRC PRESS - TAYLOR & FRANCIS GROUP- **SCOPUS** – in press.
3. Kayal Padmanandam, SubethaT, Rashmita Khilar “SMART POWER SYSTEMS AN EYEVIEW” in the book Smart Energy and Electric Power System: Current Trends and New Intelligent Perspectives-ELSEVIER Publications. (Scopus, Accepted for publication)

International Journal Publications

1. P.Kayal, “Data Mining For Humanity: An Overview” IPASJ International Journal of Information Technology (IIJIT), Volume 6, Issue 10, October 2018.
2. P.Kayal and Dr.S.Kannan, “Improved Ensemble Subspace Classifier With Higher Precedence Active Sampling on Class Association Rules” in International Journal of Computer Science (IIJCS), Volume 6, Issue 4, March 2018

3. P. Kayal and Dr.S.Kannan, “An Ensemble Classifier Adopting Random Subspace Method Based on Fuzzy Partial Mining” in Indian Journal of Science and Technology 10(12), March 2017(**ISI, Web of Science**).
4. P.Kayal and Dr.S.Kannan,” A Partial Weighted Utility Measure for Fuzzy Association RuleMining” in Indian Journal of Science and Technology, Vol 9(10), March 2016. (**Scopus, Elsevier, Web of Science**).
5. P. Kayal and Dr.S.Kannan, “Building Fuzzy Associative Classifier Using Fuzzy values” in International Journal of Science Research, Vol 3, Issue 7, July 2014,ISSN: 2319-7064.
6. P.Kayal and Dr.S.Kannan, “Efficient Association Rule Mining using Fuzzy weight on Fuzzy values” in International Journal of Scientific and Research Publications, Vol 3, Issue 10, Oct 2013, ISSN: 2250-315.

International Conference Publications

1. Nikitha Pitla, Kayal Padmanandam “Evaluation of Crop Yield Prediction using arsenal and Ensemble Machine learning Algorithms” in the Springer International Conference on Metaheuristics in Software Engineering and its applications (METASOFT 2022), Bhuvaneshwar(Scopus Indexing)
2. Kayal Padmanandam, K.N.S. Ramya, Ushasree Tella, N. Harshitha, Sahaay-A Web Interface to Improve Societal Impact in the Springer International Conference on Communications and Cyber-Physical Engineering -ICCCE-2022, Hyderabad. (Scopus Indexing)
3. Mogula yeshasvi, Kayal P, Subetha T, “A Survey on Text Description to Image Generation using GAN” in the Springer International Conference on Soft Computing for Security Applications-ICSCS April 2022. (Scopus Indexing)
4. P. Kayal, L. Lakshmi, “Practice of Applied Edge Analytics in Intelligent Learning Framework”, IEEE, International Arab Conference on Information Technology Nov 2020, Egypt.
5. P. Kayal, A Speech Recognized Dynamic Word Cloud Visualization for Text Summarization”, 2021 IEEE, 6th International Conference on Inventive Computation Technologies (ICICT),India.
6. P. Kayal and Dr.S. Kannan, “Knowledge Discovery Using Fuzzy Associative Subspace Ensemble Classification”, **IEEE** International Conference in Machine Learning and Data Science (ICMLDS)- December 2018, Hyderabad.
7. P.Kayal and Dr.S.Kannan,, “Improved Fuzzy Ensemble Classifier Using Tree Bagging on weighted utility mining” in International Conference on Innovations & Sustainable Development in sciences, Management & Technology (ICI-SDSMT- 2017), March 2017, Raipur.

Patents

1. Smart Classroom Virtual Reality Head Mounted Display Device for Visual-Spatial Learners-Application Number 202041052429
2. Smart Traffic Control for Emergency vehicles using Internet of Things and Image Processing-Australian Application Number – 2020103907.
3. Virtual reality head mounted display device with inbuilt hand tracking technology- Application No-202141011513,2021.
4. Method and system for implementing power grid control operations using big data based artificial intelligence (AI) techniques Application Number-202141054474.

Professional Membership

Association for Computing Machinery (**ACM**)

International Association of Engineers (**IAENG**)

International Computer Science and Engineering Society (**ICSES**)

International Academy for Science & Technology Education and Research(**IASTER**)

Achievement / Honours

- a. Appointed as Distinguished Speaker for the computing community by the Association of computing Machinery (**ACM**) during December 2019.
- b. Reviewer Advances in Science, Technology and Engineering Systems Journal (ASTESJ) (ISSN: 2415-6698)(Scopus indexed Journal)
- c. Reviewer -IEEE conferences
- d. Recipient of **BEST RESEARCHER AWARD**, 2nd International Research Awards on Science, Health and Engineering SHEN 2020 Awards by Science Father, Approved and Registered by Ministry of Corporate Affairs (MCA), Govt. of India.
- e. Recipient of **YOUNG SCIENTIST AWARD** in “8th International Scientist Awards on Engineering, Science and Medicine” organized by VDGOD Professional Association

SEMINARS, FDP, COLLOQUIUM

- Attended 5 Days Global E-FDP on “Unleashing Research Potential: Global Trends and Practices” organized by Office of International Relations, Galgotias University, Greater Noida, Uttar Pradesh held from March 7-11, 2022.
- Attended One Week Faculty Development Program on “Machine Learning Fundamentals” organized by BVRIT HYDERABAD College of Engineering for Women from 30-8-2021 to 04-9-2021.
- Attended One Week Faculty Development Program on “Artificial Intelligence” organized by BANSAL INSTITUTE OF ENGINEERING AND TECHNOLOGY Lucknow (U.P.) India from 19th July to 25th July 2021.
- Attended a Webinar on Securing Your research paper from getting Hijacked by IT department BVRITH on 14th, 15th August 2020.
- Attended a Webinar on “Convergence of Data Science & Cyber Security” by Dr. Harold D'Costa held on 08, August 2020 conducted by Society for Data Science S4DS.
- Attended an International Webinar on Fuzzy cluster validity indices for high- dimensional

datasets conducted by MIR Labs, August 05,2020.

- Attended a Webinar on Innovative Engineering Devices to combat CoVID 19 pandemic conducted by NSS, BVRITH, on July 28th 2020.
- Attended a 3 days bootcamp conducted by Clever Insight from 17 July to 19 July 2020
- Attended a National Webinar on “Research Opportunities for Engineering Faculty Members Post COVID 19 organized by National Design and Research Forum (NDRF),The Institution of Engineers (India), Bengaluru on 13 June 2020.

Webinars Conducted

1. Webinar on “**Introduction To Machine Learning and Python**” in collaboration with Nexgenics IT services Pvt Ltd., Calcutta on 2nd May 2020.
2. Webinar on “**K-Means Clustering**” in collaboration with Nexgenics IT services Pvt Ltd., Calcutta on 16th May 2020.
3. Webinar on “**Support Vector Classifiers**” in collaboration with Nexgenics IT services Pvt Ltd., Calcutta on 30th May 2020.

ACM-DSP Distinguished Speaker Program Lectures

1. Delivered a webinar on **Machine Learning Taxonomy** for Christ Deemed University, Bengaluru on 29th May 2020.
2. Delivered a talk on **Data Science Using R programming** at VVIT, Guntur on 29th February 2020.
3. Delivered a webinar on **Machine Learning Taxonomy** for KARE University, TamilNadu on 25th July 2020.
4. Delivered a webinar on Ethical Research using Reference Management System for SMGA college, Madurai, TamilNadu on July 30th, 2020.

KeyNote Speech

1. Invited as Resource person for 5 Day National FDP (Online) on Data Analytics at St. Mary’s College, Hyderabad, on 28th March 2022.
2. Invited as speaker for 2 Day International level virtual conference on Metamorphosis of Human Epistemology in the Post Pandemic Era- A Multidisciplinary Percipience on 13th & 14th August 2021 and delivered a talk on "Disruptive Technologies in Pandemic"
3. Delivered **keynote speech** in the One-week online workshop on Artificial Intelligence in Vision and IoT (AIVI 2021) conducted by NIT Allahabad from April 16-April 20 2021.
4. Delivered lecture in FDP on Data Science and Machine Learning with R Programming conducted by Saveetha School of Engineering, Chennai on March 24th 2021.

5. Delivered keynote speech on “Data Science Foundation Using R programming” conducted by DS & AI Research Group, SCSE, GALGOTIAS UNIVERSITY, New Delhi on Feb 13,2021.
6. Delivered **keynote speech** on Intelligent Data Convergence at the International Event LetusTalkIt Webinar Powered by US based company Cogent IBS, a US-based Integrated Business Solutions on November 18,2020.
7. Delivered **keynote speech** in the Webinar “Real World Problems and solutions” conducted by Vidyavardhaka College of Engineering, Affiliated to VTU, Mysuru, Karnataka, India on 05 September 2020.
8. Delivered **keynote speech** on “Convergence of Data Intelligence”, in the International Webinar “Recent Trends in Data Science” conducted by Sri Meenakshi Government Arts college Madurai, TamilNadu, India on 20 August 2020.

Certifications

1. Certificate Completion- Deep Learning with Tensorflow by Edx during December 2020.
2. Certification on Research Ethics organized by UGC-Swayam during Jul-Oct (12 weeks) 2019.
3. IBM on Acclaim Certification in Big Data Foundations.
4. Certificate of Completion - Successful research grant applications – getting it right by Researcher Academy,Elseiver, 26 September, 2020.

Membership

- Association for Computing Machinery (ACM)
- International Association of Engineers (IAENG)
- International Computer Science and Engineering Society (ICSES)
- International Academy for Science & Technology Education and Research (IASTER)

ACM BIO

https://speakers.acm.org/speakers/padmanandam_12191