# **FACULTY PROFILE TEMPLATE FOR WEBSITE**

Basic Details:		
	Name: P.M. Kavitha	
	<b>Designation</b> : Assistant Professor	
	<b>Phone Number:</b> - 9940328979	
	Email Id:kavitham1@srmist.edu.in	
	Area or Subject: Machine Learning, Deep Learning, Cyber Security, Testing	
	<b>Affiliation:</b> Department of Computer Applications (BCA), Ramapuram Campus, SRM Institute of Science and Technology, Chennai-89.	
Educational Details: MCA.,M.Tech(CSE)., (Ph.D)		
	Degree -BCA	
	Area or Subject - Computer Applications	
	University - Bharathidasan University	
	Awarded Year -2007	
	Degree - MCA	
	Area or Subject - Computer Applications	
	University - SRM University	
	Awarded Year -2010	
	Degree - M.Tech	
	Area or Subject - Computer Science Engineering	
	University - Bharath University	
	Awarded Year -2015	
	Degree - Ph.D	

Area or Subject - Computer Science Engineering
University - SRM Institute of Science and Technology
Awarded Year -pursuing

# Other Details:

**Courses:** Artificial Intelligence, Machine Learning, Computer Networks, Operating System, Data Structures

Research Interests: Machine Learning, Deep Learning, Image Processing

#### **Selected Publications:**

- P. M. Kavitha & B. Muruganantham (2022) Mal\_CNN: An Enhancement for Malicious Image Classification Based on Neural Network, Cybernetics and Systems, DOI: 10.1080/01969722.2022.2159001 (SCIE Indexed)
- Madhwaraj, K. G., P. M. Kavitha, and K. Sridhar. "Assistance System For 3D Navigational Endocranial Procedures Based on Image Acquisition." Computer Integrated Manufacturing Systems 28.12 (2022): 608-619. (Scopus Indexed)
- Kavitha, P.M., Anitha M., <u>Shraddha Padhiari</u>., <u>K Anitha</u>(2022). "Detection of trash in sea using deep learning", YMER, (Scopus) Vol: 28DOI: <u>37896/YMER21.07/65</u>. (**Scopus Indexed**)
- Kavitha, P.M., Muruganantham, B. (2021)., "Deep Learning Approach in Malware Hunting" Smart Computing and Self-Adaptive Systems- Book, DOI: 1201/9781003156123-12 (Scopus Indexed)
- Kavitha, P.M., Anitha M., "Smart Cities and Industry 4.0", "Smart Computing and Self-Adaptive Systems-Book, DOI: 1201/9781003156123-11(**Scopus Indexed**)
- Kavitha, P.M., Muruganantham, B. (2021). "An Extensive Review on Malware Classification Based on Classifiers" Intelligent Computing and Innovation on Data Science. Lecture Notes in Networks and Systems, vol 248. **Springer**, <a href="https://doi.org/10.1007/978-981-16-3153-5\_40">https://doi.org/10.1007/978-981-16-3153-5\_40</a>"(**Scopus Indexed**)
- Kavitha, P.M., Muruganantham, B, "A study on deep learning approaches over Malware detection," 2020 IEEE International Conference on Advances and Developments in Electrical and Electronics Engineering (ICADEE), Coimbatore, India, 2020, pp. 1-5, doi: 10.1109/ICADEE51157.2020.9368924. (Scopus Indexed)
- Kavitha, P.M., Krishnamoorthy N., "A Study on Application of Block Chain in Electronic Voting System" International Journal of Multidisciplinary Educational Research, Issue Volume 1 No(2) 2021,IJMER.
- Kavitha, P.M., Anitha M., Pushpalatha K.,"Art of Image Augmentation with cartoon model "Bioscience and Biotechnology Research Communications, Special Issue Volume 13 No (6) 2020, Society For Science and Nature .**WOS** Indexed, **Q2**

- "A Survey on prediction approach over Machine Learning and Deep Learning Technique", Current Innovations in Computer Technology (NCCICT-20).
- "Expectation of Students Performance utilizing Data mining strategies with K-means Clustering algorithm", Current Innovations in Computer Technology (NCCICT -20).
- Kavitha, P.M., Agusthiyar R., "Impacts of temporal resolution exploitation hand-picked bunch ways on residential electricity load profiles." International Journal of Current Advanced 'ISSN: O: 2319-6475, ISSN:P:2319-6505 Impact Factor: SJIF:5.995

### **Papers Presented:**

- Presented a paper on" Providing Data Reliability using Dynamic blob key generation on cloud storage" in international conference ICHMIDE-2023.
- Presented a paper on "An extensive review on Malware classification based on Classifiers"- in an International Conference on Technology Innovation and Data Science ((Springer series Scopus Indexed) on 19<sup>th</sup> Feb 2021, Malaysia.
- Presented a paper-" A Survey on Malware detection using Deep Learning Technique" 2020 IEEE International Conference on Advances and development in Electrical and Electronics Engineering, Karpagam College of Engineering, Coimbatore on 10th & 11th Dec 2020.
- Presented a paper entitled "App based Security and Community Management System Using Cloud" in an International e-Conference on Information, Communication and Networking 2020 (IECICN 20) organized by Department of Information Technology, Easwari Engineering College (Autonomous) conducted on 10th and 11th of July 2020.
- Presented a paper in an International E-Conference on Research Essential in Machine Learning & Computational Intelligence, entitled "Art of Image Augmentation with Cartoon models", at SRM Institute of Science Technology, Chennai, India, 24.06.2020 & 25.06.2020.
- Presented paper in DPRC,SRM IST in "Novel Scalable malware detection through Deep learning" between 23<sup>rd</sup> 25<sup>th</sup> September2019.

## **Working Papers:**

☐ Capsule Neural Network for Image based dataset.

## Work in Progress:1

## **Academic Experience:**

- Assistant Professor (O.G), Department of Computer Applications, SRM University, Ramapuram Campus since June-2017 tilldate.
- Assistant Professor & Head In charge, Department of Computer Science, Apollo Arts and Science college, Chennai- from 2015 to 2017.
- Lecturer, Meenakshi Sundararajan School of management, Chennai. 2010 to 2012.

## **Other Professional Experience:**

Worked on a project" Weighbridge automation tool" in Dalmia Cements in 2010.

### **Achievements:**

- Organised 1 week online Faculty DevelopmentProgramme in "Research Insight in Artificial Intelligence and Machine Learning",7th Sep- 12thSep 2020.
- Coordinated "INNOVATIONS 2K19" an inter school project contest Aug2019.
- Organized Internship in "Netty fish" for MCA students in 2017.
- Organized Industrial visit to MCA and BCA students in 2017 & 2018.
- Organised 1 day Innovative event for School Students "Blitzkreg 2k17", Aug 2017.

#### **Workshops / Seminars / Conferences:**

- Attended 1 day "Hands on Workshop-Python", 1st Aug 2020
- Attended webinar on "AI,ML and Its Applications" July 2020.
- Attended webinar on "E-platform for effective research on Deep learning" July 20202.
- Attended webinar on "Data Analytics Past, Present and future" June 2020
- Attended webinar on "Al in medical Image Processing", 22 nd Jun 2020
- Attended webinar on "How to use turnit in software for your research" 4th May 2020.
- Attended "10 Day Boot Camp on Getting Started with Data Sciences",14th April to 25th April 2020.
- Attended webinar on "Building Simple classification using Sklearn", 25th April 2020
- Attended webinar on "Analysis of covid 19-dataset using ML Techniques", 13th -18th April 2020.
- Attended 1 day workshop on "Searching Dataset for research", 13th-18th April 2020
- Attended 2 days' workshop on "Machine Learning and Deep learning" organised by Department of Computer Science and Engineering, SAI Ram Engineering College, Chennai- DEC 2019 (IQAC &- IIC-(Ministry of HRD Initiative) Sponsored)
- Attended 2 weeks FDP on "ARTIFICIAL INTELLIGENCE & ADVANCED MACHINE LEARNING USING DATA SCIENCE" organised by Department of Computer Science and Engineering, SA Engineering College, Chennai-NOV-DEC 2019(AICTE Sponsored)

- Attended 1 day workshop on "Exploring Machine Learning through python" organised by Department of Computer Science and Applications, SRM institute of science and technology ,Ramapuram,Chennai- Aug 2019
- Attended 2 days FDP on "Python "sponsored by ICT Academy -July 2019
- Attended 3 days FDP on "Deep learning "organised by Department of computer science and engineering ,SRM institute of science and technology, Vadapalani campus -June 2019 (IET Sponsored)
- Attended a Seminar on R Machine Learning And Python conducted by Department of IT,SRM Institute
  of Science and Technology
- Attended a Seminar on IMAGE PROCESSING USING OPENCV conducted by Department Of ECE,
   SRM Institute of Science and Technology
- Attended a FDP for newly joined faculties conducted by SRM Institute of Science and Technology
- Attended a workshop related to "How to write a paper and publish in journal conducted by CSIR- Chennai.

#### **Achievements and Awards:**

- Won "Best Young Faculty" Award from SKCT Trust, Tiruvannamalai on 30th Dec 2020.
- "World Record Holder " & Achievement Certification for achieving an eminent world record under the theme "World biggest Hands-On IOT & Ethical Hacking Workshop" on 15<sup>th</sup> Aug 2019.

## **Professional Membership:**

- Member in CSI Computer Society of India -Membership ID: I1506213
- Member in **IAENG**-International Association of Engineering -**Membership ID:253200**.
- Member in IAAM-International Association of Advanced Materials Membership Id:866282914851
- Associate Member in **IRED**-Universal Association of Computer and Electronics Engineers **Membership Id:AM101000584891**
- Professional Member in IFERP -Institute of Engineering Research and Publication-Membership Id:PMIN94021876

Please send in your latest PASSPORT SIZE photograph.

