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**Mrs. Kavitha Duraipandian,** Assistant Professor in Department of Computer Science and Engineering, SRM Institute of Science and Technology, Ramapuram Campus, Chennai. She has completed her M.E(CSE) from Anna University in 2011. She is currently pursuing Ph.D at **SRM Institute of Science and Technology, Kattankulathur** in Deep learning and Machine learning. She has filed and published more than 7 Indian Patents and received grant also. She is the **Academic Mentor and EduTech Consultant** for **MIT Square, London** from **2021**. She has more than 15+ years of Academic Experience and contributed her effort in many activities. She is a life member of ISTE. She is a great mentor and very good facilitator for the young minds. She has guided more technical projects for both UG and PG. She has published more than 15 articles in National and International journals and conferences.

**Area of Research:**

Machine Learning, Deep Learning and Image processing.

**Selected Publications:**

- Deboleena Bhattacharyya, Kavitha Duraipandian, Sharanya Rajan & Mithileysh Sathiyarayanan presented a paper on “Vaccine Awareness and Enhancing Networked Healthcare Systems Across the Globe” at “International Conference on Electrical, Electronics and Computer Engineering”, IEEE DELCON-2022, Feb 2022, IEEE.
- Kavitha Duraipandian, Murugan A and Mithileysh Sathiyarayanan presented a paper on “Deep Analysis of Dementia Disorder using Artificial Intelligence to Improve Healthcare Services” at “International Conference on COMmunication Systems & NETworks (COMSNETS 2021)”, Jan 2021, IEEE.
- K Raja, Shiny J Duela, Kavitha Duraipandian, Sushila Rajan & Mithileysh Sathiyarayanan presented a paper on “VIRAL: The Effectiveness of

Virtual Lab Teaching in Higher Order Thinking Skills” in the International Conference on Online Teaching for Mobile Education (OT4ME21), Spain, Nov 21, IEEE.

- Sujal BH, Neelima K, Deepanjali C, Kavitha Duraipandian, Sharanya Rajan & Mithileysh Sathiyarayanan presented a paper on “Mental Health Analysis of Employees using Machine Learning Techniques” in International Conference on “COMmunication Systems & NETworks (COMSNETS 2022)” on Jan 2022, IEEE.
- Prashanth C, Deepanjali C, Bhuvanashree P, Kavitha Duraipandian, Thomas Chen & Mithileysh Sathiyarayanan presented a paper on “Reveal: Online Fake Job Advert Detection Application using Machine Learning” at “International Conference on Electrical, Electronics and Computer Engineering”, IEEE DELCON-2022, Feb 2022, IEEE.
- Published a survey paper titled “Analysis and Diagnosis of Dementia Disorder using Deep Learning Methods: A Comprehensive Review” in “Journal of Advanced Research in Dynamical and Control Systems(JARDCS) “ ,Vol 12,Issue no:7,July 2020,ISSN 1943,023X.
- Published a Paper titled “Intra College Communication Application Using Distributed Architecture” in International Journal of Advanced Science and Technology (IJAST)” ,Volume No.29,Issue No.6,June 2020 -ISSN NO :2005-4238 in the domain “Web Development”.
- Presented a Paper titled “Stalking Black Money Cash Business Using NFC and BlockchainTechnology" in International E-Conference on Information Communication and Networking organized by Easwari Engineering college,Ramapuram,Chennai on July 10<sup>th</sup>,2020.
- Presented a Paper titled “An Integrated Methodology For Smart Manufacturing System Based on Cloud Computing” in AICTE Sponsored Virtual Conference on Integration of Advanced Technologies for Industry 4.0 organized by KCG College of Technology,Chennai held on 12<sup>th</sup> and 13<sup>th</sup> of June 2020.

#### **Patents:**

- **A Novel Algorithm Of Active Learning Based On Machine LearningVector Algorithm**, Indian Patent, Jan 2020,202041001340

- **Intelligent Face Mask for Scrutinizing Impurity Level Based on Color Change**, Indian Patent, Sep 2021, 202141043077
- **Intelligent Reusable Face Mask**, Indian Patent, published and received grant ,2022- 365214-001
- **IOT based Finger Decontamination Device**, Indian Patent, published ,Nov2022 and granted, 365820-001
- **Multipurpose Smart Helmet”, Indian Design Patent, published on March 2023 and granted**, Patent Number - 379301-001.
- **An Automated Sentry System to protect Borders”, Indian Patent-Mar 2023** 202341015701.
- **Wireless Firing Weapon system with Safety Precautions for Military Purpose**, Indian Patent, March 2023 - 202341015804.

#### **Copyrights:**

- Received Copyright Registration Certificate from **Ministry of Commerce & Industry, Department of Promotion of Industry & Internal Trade, Delhi** for the work **“18CSC207J-ADVANCED PROGRAMMING PRACTICE LAB MANUAL- B.TECH CSE(AIML)”** on **15.07.2021**.
- Received International Copyright Certificate for the article titled **“Virtual Innovation & Research Acceleration Lab(VIRAL)**, October 2022, Copyright No: 18784301022S040
- Received International Copyright Certificate for the patent **“Intelligent Reusable Full Face Mask”**, October 2022, Copyrights Number – 18784201022S057.
- Received International Copyright Certificate for the patent **“Multipurpose Smart Helmet”**, July 2023.

#### **Books/Book chapters:**

- **“Digital Transformation (DX): A Focus on Multidisciplinary Technologies in the New Normal”**, Amazon Publishers, June 2022, ISBN- 979-8419896215.
- **“AI in Healthcare: Challenges and Opportunities”** in **“Applications of Artificial Intelligence in e-Healthcare Systems”**, pp.115 –140 , IET, UK, 2022, ISBN- 9781839534492. DOI: 10.1049/PBHE040E.’

- **"Impression of Artificial Intelligence in e-Health Care Medical Applications"**,in **Applications of Artificial Intelligence in e-Healthcare Systems"** , IET Digital Library, UK, 2022, ISBN-9781839534492. DOI: 10.1049/PBHE040E.
- **"Impact of Blockchain in Health Care System"**, in **"Unleashing the potentials of Blockchain Technology for Health care Industries"**, Elsevier , ISBN: 9780323994811, eBook ISBN: 9780323994828

**Professional Bodies:**

- The Indian Society for Technical Education(ISTE) (Member ID: LM 35700)
- International Association of Engineers (IAENG) (Member No: 280791)

**Google Scholar:**

<https://scholar.google.com/citations?user=Pie69QIAAAAJ&hl=en>

**LinkedIn:**

<https://www.linkedin.com/in/kavitha-duraipandian-943058a0>