VIJAYALAKSHMI S HALLIKERI. S. Diploma in TC&E, BE (E &E), M. Tech. (Computer Science & Engg)

Assistant Professor,

Dept. of Artificial Intelligence & Machine Learning,

Bapuji Institute Engineering and Technology,

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RESEARCH INTEREST:

Web Designing, Image Processing

TEACHING EXPERIENCE:

Having 14 years of teaching experience

- Presently working as Assistant Professor in Information Science & Engineering Dept., BIET, Davanagere, from December 1st, 2022 to till date.

- Worked as Assistant Professor in Electrical & Electronics Engineering Dept.., BIET, Davanagere, from Jan 19th, 2015 to Nov 30th,2022.

- Worked as Assistant Professor in Computer Science & Engineering Dept., BIET, Davangere from August 3rd 2010 to Jan 18th, 2015.

- Worked as Assistant Professor in Computer Science & Engineering in UBDTCE, Davangere from August 2007 to August 2008.

- Worked as Assistant Professor in Electrical & Electronics Engineering Dept., BVBC Hubli from August 1993 to August 1994.

EDUCATION:

M.Tech. in Computer Science & Engineering from UBDTCE, Davangere affiliated to Kuvempu University, Shankaghatta, during the year 2010. Percentage (First Class with Distinction): 73%

B.E. in Electrical & Electronics Engineering from BVBC, Hubli. affiliated to Karnataka University, Dharwad, during the year 1993. Percentage (First Class): 68%

Dilpoma in Electronics and Tele-Communication from Govt. Womens' Polytechnic, Hubli. Affiliated to Technical Board, Bangalore, during the year 1989. Percentage (First Class with Distinction): 73%

AWARDS:

- **Topper in NPTEL Course "Digital System Design"**, April 23rd , 2022 Exam
- **Passed with distinction in NPTEL Course in "Problem Solving Through Programming in C"**
- **2nd Rank** to Kuvempu University in **M.Tech II Sem**
- **9th Rank** to Karnataka State in **Diploma(Telecommunication)**
- Passed **National Level Maths Talent** Exam in 10th Std

PROFESSIONAL MEMBERSHIP:

• Member of Indian Society for Technical Education (ISTE)

• Member for Institute of Engineers (IE)

PUBLICATION:

1 . "Location Based App Management with CAPTCHA Security" reviewed by the board and published in "International Journal of Computer Science and Engineering (IJCSE): ISSN (Print): 2278-9960; ISSN (Online): 2278- 9979; Vol -3, Issue-4, July-2014; Impact Factor(JCC) (2014):3.1323; Index Copernicus Value (ICV)-2013:3.0"

2. Presented a paper on "An Insight to Machine Learning Algorithms and a Case Study" in 2nd International Conference on Engineering Innovation (ICEI-2023) on 02-06-2023, Organized by JIT, Davangere.

SEMINAR / WORKSHOPS ATTENDED :

ONLINE:

2022-23:

1. Attended FDP on "Data Science & Networking" on 25th to 27th, August, 2022 organized by Dept. of E&CE, Rajeev Institute of Technology, Hassan (3 Days).

2. Attended Workshop on "Recent Developments in Smart Grid" on 5th to 7th September, 2022 organized by Dept. of EEE, GSSSIETW, Mysuru. (1 Day).

3. Attended National level FDP on "Application of Geoinformatics and Remote Sensing in Engineering & Technology" on 19th to 23rd September, 2022 organized by Dept. of Civil Engineering, Bharat-Ratna Indira Gandhi College of Engineering, Kegaon, Solapur, Maharastra (5 Days).

4. Attended workshop on "Design & Development of Drone – hands on experience" on Nov 1st, 2022 organized by Bharat-Ratna Indira Gandhi College of Engineering, Kegaon, Solapur, Maharastra (1 Day).

5. Attended webinar on "Organizing the Thoughts and Results Towards a Possible Journal Publications: The Lifecycle" on Nov 8th Nov, 2022 organized by Dept. of E&CE, Bharat-Ratna Indira Gandhi College of Engineering, Kegaon, Solapur, Maharastra (1 Day).

6. Attended FDP on "Electrical Vehicle Technologies-A Future Transportation Tool" from Nov 28th Nov to 2nd Dec, 2022, organized by Bangalore Institute of technology (5 Days).

7. Attended FDP on "Introduction to Python Programming" from 12th to 14th Dec, 2022, organized by Dept. of IS&E, BIET., Davngere (3 Days).

8. Attended webinar on "Industrial Protocols Overview" on 17th Dec, 2022, organized by Basaveshwara Engineering College, Vidyagiri,, Bagalkot (1 Day).

9. Participated in MCQ Quiz under "National Energy Conservation Week " from 14th to 20th Dec, 2022, organized by Energy club in association with Institute Innovation Cell, Shri Siddartha Institute

of Technology, Tumkur (1 Day).

10. Attended FDP on "Data Analytics & Data Science" from 30th Jan to 3rd Feb, 2023, organized by Dept. of IS&E, BIET., Davangere (5 Days).

11. Attended Teachers Training Programme on "Introduction to Python Programming & its Applications" from 13th   to 17th March, 2023, organized by VTU, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur district (5 Days).

12. Attended webinar on "Modern Power System Analysis" on 3rd March, 2023, organized by McGraw Hill Publications (1 Day).

13. Attended workshop on "A Journey from Idea to Incubation" from 19-05-2023 to 20-05-2023, organized Gopalan Skill Academy, Bangalore (2 Days).

14. Attended FDP on "Women Entrepreneurship Development Program" from 3rd to 30th May, 2023, organized by GSSSIET for Women, Mysuru (21 Days).

15. Attended webinar on "Random Forest Classifier & Random Forest Regressor Using STATCRAFT Python" on 24th June, 2023, organized by STATCRAFT (1 Day).

16. Attended webinar on "Business Process Analysis: Role of Process Modelling, Simulation and Optimisation" on 27 Sep 2023.organized by Insight Nivid INFORMATICS Private Limited, IIT, Roorkee.(1 Day)

2021-22:

1. Attended International Webinar on "Public Speaking" on 25st Aug, 2021conducted by IEEE Mysuru Centre (1 Day).

2. Attended FDP on "Recent Advancements in Electric Technology" from 18th – 25th Oct, 2021 conducted by Dept. of E&E, BNMIT, Bangalore, funded by NewGen IEDC, DST, Govt. of India (8 Days).

3. Attended International Webinar on "Interactive Communication" on 3rd Nov, 2021 conducted by IEEE, Information Theory Society, Bangalore Chapter (1 Day).

4. Attended Workshop on "Implementation of National Education Policy-2020" from 10th - 11th Dec, 2021conducted by BIET., Davangere in association with VTU, Belagavi (2Days).

5. Attended MCQ Quiz on "National Energy Conservation" on 18th Dec, 2021 conducted by Sri Siddartha Institute of Technology, Tumkuru (1 Day).

6. Attended Orientation / Refresher Programme on "Real Time Aspects of Automation in Industry- Need of the Hour" from 3rd - 8th Jan, 2022 conducted by G Pullareddy Engineering College, Kurnool, AP (6 Days).

7. Attended Workshop on "National Cyber Safety & Security Standards" from 6th - 7th Jan, 2022 conducted by BIET., Davangere   in association with National Cyber Defence Research Center (NCDRC) (2 Days).

8. Attended Orientation / Refresher Programme on "Electronic Assistive Devices" from 7th - 13th Jan, 2022 conducted by Dept. of E&CE, BIET., Davangere (7 Days).

9. Attended Webinar on "Machine Learning Models for Covid-19 diagnosis" on 19th Jan, 2022 conducted by IEEE Mysore subsection (1 Day).

10. Attended FDP on "Renewable Energy for sustainable Development" from 1st - 5th March, 2022 conducted by Bharata Ratna Indira Gandhi College of Engg., Solapur (5 Days).

11. Attended FDP on "Embarking on Open Source Software in an Engineering & Research Journey" from 4th - 8th April, 2022 conducted by Dept. of E&CE, BIET., Davangere (7 Days).

12. Attended Workshop on "Web Development Workshop" from 27th - 29th May, 2022 conducted by Gogte Institute of Technology, Belagavi (3 Days).

2020-21:

1. Attended International Conference on "AI, Robotics and Automation" conducted by ICT Academy of Tamilnadu from14th to 18th Oct, 2020 (5 Days) (Day1)

2. Attended International Conference on "Signals, Communication and Embedded Systems" conducted by ICT Academy of Tamilnadu from14th to 18th Oct, 2020 (5 Days) (Day2)

3. Attended International Conference on "Sensors, Energy and Hybrid Vehicles" conducted by ICT Academy of Tamilnadu from14th to 18th Oct, 2020 (5 Days) (Day3)

4. Attended International Conference on "Advances in IoT, High Performance and Computing" conducted by ICT Academy of Tamilnadu from14th to 18th Oct, 2020 (5 Days) (Day4)

5. Attended Webinar entitled "Remote Lab Platform for Hardware Circuit Experiments" conducted by Dept. of EC&E, BIET.,in association with IE(India),Davangere Local Center, Davangere on 10th Nov, 2020 (1 Day) 6. Attended 5 Days Online FDP on "Tools and Techniques for Effective research Writing" conducted by E&E dept., PES Institute of Technology and Management, Shivamogga from 7th to 11th December, 2020 (5 Days).

7. Attended Webinar on "Advances in Solar Energy Technology" conducted by Dept. of E&E, The Oxford College of Engineering, Bengaluru on Ist January, 2021 (1 Day).

8. Attended Webinar on "Recent Trends in Electrical Power System" conducted by Dept. of E&E, Angadi Institute of Technology and Management, Belagavi on 6th January, 2021 (1 Day).

9. Attended AICTE ISTE sponsored Induction / Refresher Programme (Online) Induction / Refresher Programme on "Accreditation: An Accelerator for Quality Improvement in Engineering Education" conducted by Dept. of E&CE, SDM College of Engineering & Technology, Dharwad from 02 18th to 24th February, 2021 (7 Days).

10. Attended Webinar on "Modelling Uncertainty For Image Analysis" IEEE information Theory Society (ITS) Bangalore Chapter in association with IEEE Bangalore Section & IEEE Mysore Sub section on 25th February, 2021 (1 Day).

11. Attended Webinar on "Ecological Reconversion of Cars: the Case of Solar Hybridization" conducted by IEEE Mysore Sub Section in association with IEEE Bangalore Section on 2nd March, 2021 (1 Day).
12. Attende Webinar on "Novel Two-Factor Honey Token Authentication Mechanisms" conducted by IEEE Information Theory Society (ITS) Bangalore Chapter, in association with IEEE Bangalore Section and IEEE Mysore Subsection on 8th March, 2021 (1 Day)

13. Attended AICTE-ISTE Sponsored Orientation/ Refresher One Week Online Programme on "Model Based Design Using MATLAB, Electronic Design Automation Technologies" conducted by K.T.S.'s College Of Engineering (Autonomous), Kolhapur from 9th to 15th March, 2021 (7 Days).

14. Attended Webinar on "Intelligent Receiver Design and Future Communication for 6G Technology" conducted by IETE Mysuru Centre on 13th March, 2021 (1 Day).

15. Attended Webinar on "Yoga for Mindfulness" conducted by IEEE Mysore Sub Section in association with IEEE Bangalore Section and IEEE Bangalore Section WIE on 14th March, 2021 (1 Day)

16. Attended Webinar on "SDG 6-Clean Water and Sanitation" conducted by NSDF Shimla on 17th March, 2021 (1 Day)

17. Attended Webinar on "Internet of Things and TinyML: The New Era of Smart Objects" conducted by

IETE Mysuru Centre on 26th March, 2021 (1 Day).

18. Attended Webinar on "Data Science" conducted by IETE Mysuru Centre on 27th March, 2021 (1 Day).

19. Attended International Webinar Series in view of Womens' day Celebration conducted by IEEE Mysuru Sub Section from 26th to 29th March, 2021 (4 Days).

20. Attended Expert Talk on "Cognitive Buildings" conducted by IEEE Information Theory Society Bangalore Chapter on 15th April, 2021 (1 Day).

21. Attended Expert Talk on "Introduction to Cybersecurity at Physical Level" conducted by IEEE Mysore Sub Section in association with IEEE Bangalore Section and IEEE Information Theory Society Bangalore Chapter on 16th April, 2021 (1 Day).

22. Attended Webinar on "Advanced Biometric Techniques" conducted by IEEE Mysore Sub Section in association with IEEE Bangalore Section and IEEE Information Theory Society Bangalore Chapter on 23rd April, 2021 (1 Day).

23. Attended Webinar on "Time Syncronization of networked IoT Devices: Techniques, Issues and Applications" conducted by IEEE Information Theory Society (ITS) Bangalore Chapter on 28th April, 2021 (1 Day).

24. Attended Webinar on "Printable Electronic Sensors to Enable Connected Platforms" conducted by IETE Mysuru Centre on 30th April, 2021 (1 Day).

25. Attended Webinar on "Mathematical Precision Analysis of DSP Algorithms" for 1 Day on 7th May, 2021 conducted by IEEE Information Theory Society (ITS) Bangalore

26. Attended One week Online FDP on "Design and Development of Automated System using PLC" for 6 Days,14th-19th May, 2021 conducted by Department of Electrical Engineering, Kolhapur

Institute of Technology's College of Engineering (Autonomous), Kolhapur Sponsored by AICTEISTE INDUCTION/REFRESHER PROGRAM

27. Attended International Webinar on "Antenna Array Processing for Wireless Power Transfer in Near Field Applications" for 1 Day on 17th May, 2021 conducted by IETE Mysuru Centre on Occasion of World Telecommunication & Information Society Day

28. Attended National Level Online Quiz on "DCS & PLC Systems" for 1 Day on 21st May, 2021 conducted by IEEE Mysore Sub Section in association with IEEE Bangalore Section and IEEE Information Theory Society Bangalore Chapter

29. Attended Webinar on "IoT Based Monitoring Systems" for 1 Day on 22nd May, 2021 conducted by IEEE Information Theory Society (ITS) Bangalore Chapter

30. Attended Webinar on "Achieving energy efficiency in high data rate transmission techniques for 5G systems" for 1 Day on 03rd June, 2021 conducted by IETE Mysuru Centre 31. Attended Webinar on "National level webinar on simulation driven innovation for e- mobility" for 1 Day on June10th, 2020 conducted by KLE Techonolgical university Hubli

32. Attended FDP on "Application of Datascience and Machine Learning" for 5 Days during 14th -18th June, 2021 conducted by Dept. of E&E, Vidyanikethan Engg College (Autonomous), Tirupari, Andhra Pradesh

33. Attended FDP on "Machine Learning & its Applications" for 7 Days during 17th-23rd June, 2021 conducted by Dept. of E&E, Vidyanikethan Engg College (Autonomous), Tirupari, Andhra Pradesh

34. Attended Webinar on "Full Stack Developer" for 1 Day on 23rd June, 2021 conducted by Dept. of IS&E, BIET, Davangere

35. Attended Webinar on "Effective Utilization of VTU Consortium E-Resources using RRCE" for 1 Day on 2nd July, 2021 conducted by Library and Information Centre & Department of Information

Science & Engineering of Raja Rajeswari College of Engineering, Bangalore

36. Attended Webinar on "Building Block Chain using Python" for 1 Day on 10th July, 2021 conducted by IEEE Information Theory Society (ITS)

2019-20:

1. Attended Webinar on "Impact of AI during Pandemic Times", for 1 Day on 4th June, 2020 conducted by Woxsen School of Business

2. Attended Webinar on "Fundamentals of Electrical Engineering" , for 1 Day on 9th June, 2020 conducted by KLE Institute of Technology, Hubballi

3. Attended one day webinar on "National level webinar on simulation driven innovation for e- mobility" organized by KLE Techonolgical university Hubli,on June10th 2020 (1 Day).

4. Attended Webinar on "How to write a Research Paper" for 1 Day on 16th June, 2020 conducted by Sagar Institute of Research & Technology, Bhopal

5. Attended Webinar on "Artificial intelligence with Python" for 1 Day on 15th June, 2020conducted by Parul university Vadodara Gujarat Vaageswari col.of engg. Karimnagar. Talangan

6. Attended National Level One Week Online FDP on "Contemporary Scenario in Power Systems" for7 Days during 25th-30th July, 2020 conducted by Dept. of E&E, ATME College of Engineering, Mysore

OFFLINE:
2018-19:

1. Attended the AICTE sponsored faculty Development Program on "Industrial automation using Hydraulics, Pneumatics and PLC" for a duration of two weeks held between 1st January to 12th January, 2018 at Manipal Institute of Technology, Manipal, India.

2. Attended Faxulty Development Programme on "Bosch RexrothPLC, Servodrives, Sensors and SCADA" for 5 Days during 16th-20th Jan, 2019 conducted by Dept of EEE DSATM Bangalore

2017-18:

1. Participated in the Two days AICTE Sponsored National Level seminar on "IoTs in Transforming Rural Healthcare system and Point of Care Testing" held on 8th & 9th December 2017, organized by Department of Electronics and Instrumentation Engineering, University BDT College of Engineering, Davangere, Karnataka.

2016-17:

1. Participated in the workshop on "Intellectual Property Rights" organized by Research & Developmant Cell of Bapuji Institute of Engineering & Technology, Davangere held on 6th April, 2017.

2. Participated in two days National Level Workshop on "Internet of Things (IOT)" held at Dept of CS&E VTU, PG centre, Mysuru on 18th & 19th April, 2017 in association with Unisol Mysuru.

3. Attended one day seminar on "ROLE OF WOMEN IN SOCIETAL REFORMS" organised by department of Information Science and Engineering in association with ISTE Faculty Chapter, ISTE Student Chapter, NSS, YRCW, Davangere on 10th March, 2017.

4. Participated in the workshop on "MATLAB R2017a" for 3 Days during 28th-30th July, 2017 organized by the Department of Electrical & Electronics Engineering, Vidyavardhaka College of Engineering, Mysuru in association with CoreEL Technologies, Bengaluru.

2011-2014:

1. Participated in the workshop on "Advanced Electrical Power Systems and Artificial Intelligence Techniques" organized by the Department of Electrical and electronics engineering, BIET, Davangere, on 11th and 12th 2011.

2. Participated in the Deep Dive Faculty Enablement Program held at Infosys, Mysore from June 27, 2011 to July 1, 2011 conducted by Infosys technologies limited.

3. Participated in the workshop on "Advanced Electrical Power Systems and Artificial Intelligence Techniques" organized by the Department of Electrical and electronics engineering, BIET, Davangere, on 11th and 12th 2011.

4. Participated in the Deep Dive Faculty Enablement Program held at Infosys, Mysore from June 27, 2011 to July 1, 2011 conducted by Infosys technologies limited.

5. Participated in the Faculty Updation training on "Think Parallel: Parallel Programming for Engineers & Scientists" organized by C-DAC Bangalore, as the part of the Advanced Faculty Training project of CDAC Hyderabad, under HRD Division of Department of Information Technology, Government of India, conducted at C-DAC Bangalore for a period of two weeks from 02 Jan, 2012 to 12th June, 2012.

6. Participated in Mission10X workshop conducted at bapuji Institute of Engineering and Technology at Davangere.

7. Participated in the 10-day ISTE workshop on "Research Methodology" conducted by IIT Bombay, under the National Mission on Education through ICT sponsored by MHRD during 25th June 2012 to 4th July 2012 at Angadi Institute of Technology & Management, Belgaum.

8. Attended Two day Faculty Development Progarm on "LabVIEW and its Applications" organized in association with ISTE BIET Chapter & Trident Techlabs Pvt.Ltd., Bengaluru abt BIET, Dvanagere on Aug 2nd , 2012.

9. Attended 10 days "Computer Networks" webinar workshop conducted by Bombay IIT at UBDTCE, Davangere, in 2012.

10. Underwent 'Feel Teacher' Learning and Development Intervention conducted from 19 through 21 April 2013, at Bapuji Institute of Engineering & Technology, Davangere, Karnataka

11. Participated in Two days workshop on "WOMEN EMPOWERMENT" held on 18th & 19th December 2014, organized by IS&E Department, BIET, Davangere

EXTRA/CO-CURRICULAR ACTIVITIES:

• Designed, developed Online Students Feedback Project for college BIET, Davnangere which did run for 2 years successfully for 12 BE, 1 MCA and 11 First year Divisions, comprising around 4000 students and 250 faculty.

- Worked as Coordinator for Registration Committee in State level fest "Davana" at BIET.
- Designed and developed "VISION BOOK" for Computer Science Dept, BIET which has highest intake in BIET Engg College, Davangere.
- Guided and published Final year project batch student's technical paper in International Journal.
- Placed CS&E students in Campus Interview by successful handling of Core subject Database Management Subject.
- Published Oil painting as Back cover page of College magazine Technowave-31.
- Published technical article with implementation on Andriod technology in Technowave-32.
- Published several Oil paintings and articles in Technowave magazines .
- Worked as Judge to Karnatak Sangeet Competition in college.
- Worked as Judge to Inter-Collegeate Power Point Presentation competition in other degree college .
- Worked as Judge to E-TV MAHILA contest.

PROJECTS GUIDED:

- For BE-08

SUBJECTS TAUGHT:

1. Computer Concepts and C Programming
2. Logic Design
3. Microprocessors
4. Data Structures
5. Database Management Systems
6. Computer Organization & Architecture
7. Computer Graphics
8. Java and J2EE
9. Embedded Computing Systems
10. Management and Entrepreneurship
11. Electrical Power Generation
12. Operation Research
13. Basic Electrical Engineering
14. Sensors and Transducers
15. Object Oriented Programming using C++
16. Microcontroller & Embedded Systems

RESIDENTIAL ADDRESS:

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