

Dr. PRADEEP N
Dean Academics
Professor, Dept. of CS&E

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Department of Computer Science &
Engineering,
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Davangere-577004, Karnataka, India

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Career Objective

To pursue a versatile and goal-oriented career in my specialized areas using the skills acquired and passions for the development of the organization and grow myself along with the organization.

Research Interests

- Machine Learning
- Artificial Intelligence
- Medical Image Analysis
- Pattern Recognition
- Knowledge Discovery
- Cloud Computing and NLP

Academic Profile

Post PhD:

2021

Completed Short Term Post-Ph.D. Pilot Research Project from Thu Dau Mot University, Thu Dau Mot city, Binh Duong province, Vietnam.

Topic: Data Analytics in Context to Plant Identification based on Leaf Features and Disease Identification

Research Supervisor: Dr. Bui Thanh Hung, Director of DAAI Lab, Thu Dau Mot University, Vietnam

Ph.D.

2007-2014

Doctor of Philosophy (Ph.D.), in Computer Science and Engineering from Visvesvaraya Technological University, Belagavi.

- **Thesis Title:** "Analysis and Classification of Breast Tumors using Support Vector Machines"

Post Graduation

2000-2002

- Master of Technology (M.Tech.) in Computer Engineering from SJCE, Mysuru, affiliated to Visvesvaraya Technological University, Belagavi, Karnataka, India.

Under Graduation

1995-1999

- Bachelor of Engineering (B.E.) in Electronics and Communication Engineering from Bapuji Institute of Engineering and Technology, Davanagere, affiliated to Kuvempu University, Shivamogga, Karnataka, India

Professional Experience

Dean Academics

Bapuji Institute of Engineering and Technology, Davanagere from April 2022 to till date.

Professor

Department of Computer Science and Engineering, Bapuji Institute of Engineering and Technology, Davanagere from May 1 2021 to till date

Associate Professor

Department of Computer Science and Engineering, Bapuji Institute of Engineering and Technology, Davanagere from December 1 2014 to April 30 2021

Assistant Professor

Department of Computer Science and Engineering, Bapuji Institute of Engineering and Technology, Davanagere from January 1 2012 to November 31 2014.

Sr Lecturer

Department of Computer Science and Engineering, Bapuji Institute of Engineering and Technology, Davanagere from September 1 2008 to December 31 2011.

Lecturer

Department of Computer Science and Engineering, Bapuji Institute of Engineering and Technology, Davanagere from September 3 2003 to August 31 2008.

Professional Memberships

- Senior Member of Institute of Electrical and Electronics Engineers (SMIEEE) [95637781]
- Member of Association for Computing Machinery (MACM) [7741839]
- Member of Institute of Engineers (MIE) [1681596]
- Member of Indian Society for Technical Education (MISTE) [LM43284]
- Member of International Association of Engineers (MIAENG) [280382]

Honors

Hon. D.Eng (Honorary Doctrine Engineering) (Honoris Causa), Iranian Neuroscience Society FARS chapter and Dana Brain Health Institute, Shiraz, Iran, Cert No. 0362021HonRINSS dated June 3rd 2021

Recognition

International

- Selected as one of jury member to evaluate the proposals submitted for QS Reimagine Education Awards 2023
- Appointed as Senior Member, Iranian Neuroscience Society-FARS Chapter (SM-FINSS) for the duration of TWO years (March 1st 2021 to March 2nd 2023), SM-FINSS No.: 20301SMFINSS

National

- Nominated as Domain Expert for Internal Innovation Committee (IIC) for assisting city on Integrated Command and Control Center (ICCC) Innovation under Smart City Mission from 15-04-2023 to till date.
- Nominated as Technical Expert Committee Member to setup Digital Library at Davangere University, Davangere, Karnataka, India
- Nominated as Technical Committee Member for evaluating ICT Projects, Davangere Smart City, Davangere, Karnataka, India

Board of Studies

- Appointed as BoS Member from Visvesvaraya Technological University for CS & E, IS & E and allied branches of CS and IS for duration of 3 years (2022-2025)
- Appointed as BoS Member in Engineering, Management and Technology-Computer Science and Engineering, Adichunchangiri University, B G Nagara, Karnataka for a period of TWO years starting from 01-03-2024
- Appointed as Nominee of Visvesvaraya Technological University, Belagavi to the Board of Studies in CS and E dept. of Basaveshwar Engineering College (Autonomous), Bagalkot from 31-05-2022 to 31-05-2025

Board of Examinations

- Appointed as BoE member in the PG Studies, Department of Computer Science, Davangere University, Davangere in 2023-2024

University Local Inspection Committee Member

- Identified as one of the LIC committee member in 2024, 2021, 2019 from Visvesvaraya Technological University, Belagavi, Karnataka.

Responsibilities @BIET

- Dean Academics of the Institute [w.e.f from 26-04-2022]
- IQAC Member
- Department (Program) NBA Coordinator and Institute Level Core Committee Member
- Institute Level I-File coordinator during NBA accreditation
- Intellectual Property Cell Member
- Institute Innovation Cell Ambassador
- Dean Alumni Association (2019-2021)
- Placement Coordinator and Placement Officer [2008 -2020]
- Student Mentor for higher semester students

Subjects taught at UG and PG Levels

For B.E.

Data Analytics using Excel, Unix Programming, User Interface Design, Programming the Web, Object Oriented Programming with C++., Unix and Shell Programming, Storage Area Networks, Operating Systems, System Simulation and Modelling, Computer Networks, Computer Professional and Philosophical Ethics, Software Engineering, Object Oriented Analysis and Design, Multimedia Communications, Database Management Systems, JAVA

For M.Tech.

Cyber Security and Cyber Law, Research Methodology, OOAD and Design Patterns, Topics in Multimedia Communications, Protocol Engineering, Advances in Storage Area Networks, Information and Network Security, Pattern Recognition, Cloud Computing.

Postdoc Guidance:

Co-guide:

[1] Research Topic: "*Design and Development of Quantum Integrated Circuits using the concepts of Machine Learning for Bio Medical Applications*".

University/Institution: Singapore Institute of Technology, Singapore.

[2] Research Topic: "*Breast Cancer Diagnosis using Generative Adversarial*

Networks: A Comparative study on GAN variants”.

University/Institution: University of South Florida (Sarasota-Manatee Campus)

Project Guidance and Research Guidance

1. **For B.E.:**60 batches
2. **For M.Tech.:** 30 students
3. **Research:** Research Supervisor for 5 Ph.D. research scholars in the area of Medical Image Analysis and Knowledge Discovery from Clinical Data.
4. **Doctoral Committee Member:**
 - Doctoral Committee Member for the research scholars registered in CS and E Research Centre, BIET, Davangere.
 - Doctoral Committee Member for the research scholars registered in IS and E Research Centre, SJBIT, Bengaluru.
 - Doctoral Committee Member for the research scholar registered in Department of MCA, MAHE, Manipal.
 - Doctoral Committee Members for the research scholars registered in CS and E Research Centre and IS and E Research Centre, AIT, Chikkamagaluru.

Intellectual Property Rights

Patents:

- [1] **German Utility Patent Grant:** Filed German utility patent on **03/03/2022** and its title is **“Intelligent Street Light Automated ON/OFF system based on object detection”**, Patent Application Number is 202022101198 and the utility patent application is filed on 03/03/2021 and granted in 11/04/2022
- [2] **Australian Patent Grant:** Filed an Australian patent on 07/10/2020 and is granted 11/11/2020 and its title is **“The Severity Level and Early Prediction of COVID-19 using CEDCNN Classifier”**, Patent Number: 2020102631.
- [3] **Indian Patent:** Filed an Indian Patent on 26/07/2019 and its title is **“System of Smart Multi - Functional Traffic Light Using Organic Solar Cell”**, Patent Application Number is 201911030347 and the application is published on 09/08/2019.

Copyrights

Copyright Registered

[1] **ROC:** L-147203/2024

Dairy No.: 6976/2024-CO/L

Date of filing: 07/03/2024

Title of the work: "Reliable AI framework for Analysis and Classification of Sleep Disorders using Explainable Machine Learning Models"

[2] **ROC:** L-146583/2024

Dairy No.: 5793/2024-CO/L

Date of filing: 22/02/2024

Title of the work: "Utilizing Explainable AI and Deep Learning Techniques for Analysis and Classification of Alzheimer's disease."

[3] **ROC:** L-106149/2021

Old Dairy No.:12965/2021-CO/L

Title of the work: "Ref-Cite-Authenticator: A Methodology to Verify Relevance of the References in Research Publications: A Step to Curb Fake Citations"

Date of Filing:13/06/2021

[4] **ROC:** L-108005/2021

Old Dairy No.: 19945/2021-CO/L

Date of Filing: 19/08/2021

Title of the work: "Human Age and Gender Identification system using MSVM and LIBSVM based on Wrist, Teeth and Femur X-ray images."

[5] **ROC:** L-108502/2021

Old Dairy No.: 21027/2021-CO/L

Date of Filing:02/09/2021

Title of the work: "Integration of Cloud Services, Natural Language Processing and Machine Learning Techniques for Knowledge Discovery from Clinical Text."

[6] **ROC:** L-108404/2021

Dairy No.: 21447/2021-CO/L

Date of Filing: 07/09/2021

Title of the work: "Oral Lesions Classification using Ensemble Learning and Deep Learning Techniques."

[7] **ROC:** L-109108/2021

Dairy No.: 21502/2021-CO/L

Date of Filing: 07/09/2021

Title of the work: "Plant Leaf Disease Diagnosis, Classification, and Enhancement for Discovery Accurate Shading through Colour Model."

[8] **ROC:** L-109562/2021

Dairy No.: 20710/2021-CO/L

Date of Filing: 29/08/2021

Title of the work: "Framework for Classification of Tumors using Ensemble Machine Learning and Deep Learning approaches."

[9] **ROC:** L-112699/2022

Dairy No.: 29360/2021-CO/L

Date of Filing: 06/12/2021

Title of the work: "Automatic Sattu Vending Machine."

[10] **ROC:** L-114024/2022

Dairy No.: 20379/2021-CO/L

Date of Filing: 24/08/2021

Title of the work: "Plant Identification based on heterogeneous features of leaf using Multiclass Support Vector Machines."

[11] **ROC:** L-119656/2022

Dairy No.: 14903/2022-CO/L

Date of Filing: 11-07-2022

Title of the work: "LoRA Integrated Internet of Things based Sustainable Water Meter"

[12] **ROC:** L-121577/2023

Dairy No.: 14912/2022-CO/L

Date of Filing: 11-07-2022

Title of the work: "Framework for Opinion Mining Using Deep Learning"

[13] **ROC:** L-129330/2023

Dairy No.: 14900/2022-CO/L

Date of Filing: 11-07-2022

Title of the work: Ultraviolet C Architecture: A Quench of the Relinquishing

Guest Editor in Special Issue Journal

1. Dr Manoj Kumar M V, Prof. Immanuel Azaad Moonesar, Dr. Shiva Darshan S L, Ajay Kumara Makanahalli Annaiah, Likewin Thomas and **Dr Pradeep N**, "*Convergence of Blockchain and Artificial Intelligence in Healthcare: Innovations, Challenges, and Future Direction*", *Frontiers in Blockchain, Blockchain for Science*.
2. Dr. Alessandro Bruno, **Dr. Pradeep N**, Dr. Mangesh M. Ghonge, Dr. Mohamed Elhoseny, Dr. Faraz Janan and Dr. Gagandeep Jagdev, "*Advances in IoMT, Deep Learning and Computer Vision for Mammographic Image Analysis*", *Journal of Imaging, an Open Access Journal by MDPI* [**Indexing**: PubMed, ESCI]
3. Dr Alessandro Bruno, Dr. Aladine Chetouani, Dr Mangesh M. Ghonge, and **Dr Pradeep N**, "*Human Behavior Understanding for Smart City Environment Safety*", *Journal of Imaging, an Open Access Journal by MDPI* [**Indexing**: PubMed]

Editor-in-Chief

Appointed as International Journal of Research in Advent Technology (IJRAT) E-ISSN: 2321-9637 for 2023 to 2024 [Indexing: J-Gate, CrossRef]

Journal and Conference Publications

International Journal Publications:

1. Chandrashekhar M V and **Pradeep N**, "Ensemble Machine Learning Techniques for Analysis and Classification of Sleep Disorders – A Review," *Journal of Innovation Sciences and Sustainable Technologies*, Volume 3(Issue 3), 183 - 196, 2023., <https://doie.org/10.0904/JISST.2023389939>
2. Sheik Imran and **Pradeep N**, "A Review on Ensemble Machine and Deep Learning Techniques Used in the Classification of Computed Tomography Medical Images", *International Journal of Health Sciences and Research*, Vol.14, Issue 1: January 2024, ISSN:2249-9571, DOI: <https://doi.org/10.52403/ijhsr.20240124>. [Indexing: PubMed, CrossRef. Open JGate, Google Scholar, Index Copernicus]
3. Gururaj T, Arjun H, Vishwanath V K, and **Pradeep N**, "Safeguarding Digital Spaces: Employing NLP And Machine Learning to Combat Intimidator on Social Platforms", *Technische Sicherheit(Technical Security)* Vol.23, Issue 12, 2023, pp: 253-267, DOI:22.8342.TSJ.2023.V23.12.01213 [Indexing: UGC Care Group II & Scopus Active Journal)
4. Gururaj T, **Pradeep N**, and Vishwanath V K, "Shielding Online Communities:

Natural Language, Processing and Machine Learning Strategies against Social Media Intimidation," International Journal of Research in Advent Technology, Vol.11, No.4, December 2023E-ISSN: 2321-9637, DOI: 10.32622/ijrat.114202304 [Indexing: CrossRef, Google Scholar, J-Gate]

5. Naveen S Pagad, **Pradeep N**, Tulika Chakrabarti, Prasun Chakrabarti, Pugazhenthan Thangaraju, "Clinical XLNet based End-to-End Knowledge Discovery on Clinical Text Data using Natural Language Processing", Journal of the Scientific Society. [Indexing: UGC CARE. Web of Science, ESCI]
6. Kavitha G., Chetana Prakash, Majid Alhomrani, **Pradeep N.**, Abdulhakeem S. Alamri, Piyush Kumar, Shukla, Musah Alhassan, "Noise Estimation and Type Identification in Natural Scene and Medical Images using Deep Learning Approaches", Contrast Media & Molecular Imaging, [Q2 Journal] [Impact Factor: 3.009] Hindawi Publishers [Indexing: PubMed Central, Scopus, WoS, SCIE]
7. Thiyagarajan Sampath, Rajkumar Kulandaivel, Manikandan Ramachandran, **Pradeep N**, Isaac Kweku Boakye, "A Pattern Recognition Oriented Approach for Industry 4.0 Using Bacterial Forage Optimized CNN for Real-time License Plate Recognition", Contrast Media & Molecular Imaging, [Q2 Journal] [Impact Factor: 3.009] Hindawi Publishers [Indexing: PubMed Central, Scopus, WoS, SCIE]
8. L. K. Hema, R. Manikandan, Majid Alhomrani, **Pradeep N**, Abdulhakeem S. Alamri, Musah Alhassan, "Region Based Segmentation and Classification for Ovarian Cancer Detection Using Convolution Neural Network", Contrast Media & Molecular Imaging, [Q2 Journal] [Impact Factor: 3.009] Hindawi Publishers [Indexing: PubMed Central, Scopus, WoS, SCIE]
9. Naveen S Pagad and **Pradeep N**, "End-to-End Relation Extraction on Clinical Text Data using Natural Language Processing", Azerbaijan Journal of High-Performance Computing, ISSN: 2616-6127 (print), 2617-4383 (online). DOI: 10.32010/26166127.
10. Naveen S Pagad, **Pradeep N**, Khalid K. Almuzaini, Manish Maheshwari, Durgaprasad Gangodkar, Piyush Kumar Shukla and Musah Alhassan. "Clinical Text Data Categorization and Feature Extraction Using Medical-Fissure Algorithm and Neg-Seq Algorithm." Computational Intelligence and Neuroscience (2022), Hindawi Publishers. [Q1 Journal] [Indexing: DBLP, SCIE, Scopus, WoS, PubMed]

11. Santosh K C, **Nijalingappa Pradeep**, Vikas Goel, Raju Ranjan, Ekta Pandey, Piyush Kumar Shukla, and Stephen Jeswinde Nuagah, "Machine Learning Techniques for Human Age and Gender Identification Based on Teeth X-Ray Images", Article ID 8302674, Journal of Healthcare Engineering, Hindawi Publishers. [Q2 Journal] [Indexing: SCIE, Scopus, WoS, PubMed]
12. Santosh K C and **Pradeep N**, "Novel Approach to Determine Age and Gender from Wrist X-ray images", Turkish Journal of Computer and Mathematics Education, Vol. 12 No.3, 2021, pp 5215-5229, e-ISSN 1309-4653, DOI: <https://doi.org/10.17762/turcomat.v12i3.2151> [Indexing: Scopus]
13. **Pradeep N** and Sowmya M S, "Recognition of Fruit and Grading automatically using Machine Learning", International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429, Vol. 8, Issue VIII, August 2020, pp 931-939, <https://doi.org/10.22214/ijraset.2020.31003>
14. Mohan Kumar K N, S. Sampath, Mohammed Imran, and **Pradeep. N**, "Prediction of Diagnostic Codes of Chronic Condition for Preventive Care", International Journal of Advanced Science and Technology, ISSN: 20054238 IJAST, Vol. 29, No. 03, (2019), pp. 6454 - 6463 [Indexing: Scopus, SCI]
15. Swetha V Patil and **Pradeep N**, "Speech Translation System for Language Barrier Reduction", International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056, p-ISSN: 2395-0072, Vol. 06, Issue 08, pp 107-112, Aug 2019.
16. Apoorva T and **Pradeep N**, "Aspect Based Sentiment Analysis with Text Compression", International Journal of Computer Sciences and Engineering, ISSN 2347-2693 (E) Vol.5, Issue.8, pp.63-66, 2017, DOI: 10.26438/ijcse/v5i8.6366
17. Bhavana Shastry M and **Pradeep N**, "Comparison of Structure Based Models for Handwritten English Character Recognition", International Journal of Computer Sciences and Engineering, ISSN 2347-2693 (E) Vol.5, Issue.8, pp.126-130, 2017., DOI: 10.26438/ijcse/v5i8.126130 (UGC approved)
18. Vidyashree H S and **Pradeep N**, "Identification of Teeth, Wrist and Femur Bone Features for Age and Gender Identification," International Journal of Computer Science Engineering (IJCSE), ISSN: 2319-7323, Vol. 6 No.01, pp. 29-41, Jan 2017

19. **Pradeep N**, Girisha H and K Karibasappa, "Segmentation and Feature Extraction of Tumors from Digital Mammograms", Computer Engineering and Intelligent Systems, IISTE, ISSN: 2222-1719(Paper) ISSN: 2222-2863(Online), Vol.3, No.4, pp.37-46, 2012.
20. **Pradeep N**, Girisha H, Sreepathi B and K. Karibasappa, "Feature Extraction of Mammograms", International Journal of Bioinformatics Research, ISSN: 0975-9115, EISSN: 0975-9115, Vol. 4, Issue 1, pp.241-244, 2012.

International Conferences

1. Naveen S Pagad and **Pradeep N**, "*Clinical Named Entity Recognition Methods: An Overview*", International Conference on Innovative Computing and Communication, February 20-21, 2021, Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi, In Association with University of Valladolid Spain and National Institute of Technology, Patna.
2. Mohan Kumar K N, S Sampath, Mohammed Imran, and **Pradeep N**, "*Clustering Diagnostic Codes: Exploratory Machine Learning Approach for Preventive Care of Chronic Diseases*", 8th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2020), January 4 - 5, 2020, National Institute of Technology Karnataka, Surathkal, India.
3. Santosh K C and **Pradeep N**, "*Development of Human Age and Gender Identification system from Teeth, Wrist and Femur Images*", In the Proceedings of Sustainable Computing in Science, Technology and Management (SUSCOM-2019), Amity University, Jaipur, pp. 640-644, 2019.
4. **Pradeep N** and Sandeep B, "*Machine Learning Approach for the Identification of Diabetes Retinopathy and its Stages*", In the Proceedings of 2015 IEEE International Conference on Applied and Theoretical Computing and Communication Technology (ICATCCT 2015), IEEE Part Number: CFP15D66-USB, ISBN: 978-1-4673-9222-8, pp.653 - 658, DOI: 10.1109/ICATCCT.2015.7456906.
5. **Pradeep N** and Madhumathi V J, "*Plant Identification System Using its Leaf Features*", In the Proceedings of 2015 IEEE International Conference on Applied and Theoretical Computing and Communication Technology (ICATCCT2015), IEEE

Part Number: CFP15D66-USB, ISBN: 978-1-4673-9222-8, pp. 338–343, DOI: 10.1109/ICATCCT. 2015.7456906.

6. Manjunath P Shirageri and **Pradeep N**, "*Secure Message Communication for Battlefield Soldiers Using Android*", International Conference on Computer Science and Information Technology (ICCSIT), Tirupati, India, June 10 2012.
7. **Pradeep N** and K Karibasappa, "*Comparative Study of tumor classification in Mammography images using ANN and SVM*", International Symposium on Global Trends in Biomedical Informatics Research, Education, and commercialization, Chennai, January 11-12 2008.
8. **Pradeep N**, K Karibasappa, Shankaragouda B and V Ramaswamy "*An Artificial Neural Network Approach for Mammography images Feature Extraction*" In the Proceedings of International Conference on Cognition and Recognition, PES college of Engineering, Mandya, December 22 2005.

National Conferences

1. **Pradeep N**, Vinayaka, Vishal K P and Spurthi U Devaki, "*IoT based Smart Home Security*", 13th National Conference on Recent Trends in Computer Science and Engineering, SJBIT, Bengaluru, May 2018.
2. Manjunath P Shirageri and **Pradeep N**, "*An Extensible framework for efficient secure SMS transfer over Android Platform*", National conference on Innovation in Computers Information & Communication, Sasurie College of Engineering, Vijayamangalam, Tirupur, India, March 17 2012.
3. Manjunath P Shirageri and **Pradeep N**, "*Secure Message Communication for Battlefield Soldiers Using Android*", National Conference on Current Trends in Computer Science and Engineering, Jain University, Bangalore, May 26 2012.
4. Manjunath P Shirageri and **Pradeep N**, "*Current Attacks in Android: A Survey*", National Conference on Emerging and Innovative Trends in Computer Science Vasavi College of Engineering, Ibrahimbagh, Hyderabad, May 1-2 2012.
5. Manjunath P Shirageri and **Pradeep N**, "*Location Based Services for Battlefield Soldiers Using Android*", National Conference on Current Trends & Challenges in Information Technology, Sambhram Institute of Technology, Bangalore, May 11 2012.

6. **Pradeep N** and K Karibasappa "Computer Aided Diagnosis of Solid Breast Nodules using Artificial Neural Network Approach and Expert System", 3rd National Conference on Mathematical and Computational Models (NCMCM 2005), Kaveraipeetai, Tamilnadu, December 15-16 2005.
7. **Pradeep N** and K Karibasappa "An ANN approach for the detection of Solid Breast Nodules", 2nd National Conference on DBMS and Networking, Erode Sengunthar Engineering College, Thudupathi, TamilNadu, September 8-9 2005.
8. **Pradeep N** and K Karibasappa "An ANN approach for the detection of Solid Breast Nodules", National Level Conference on Recent Trends in Information Technology, Sir M. Visvesvaraya Institute of Technology. August 2-3 2005.
9. **Pradeep N** and K Karibasappa "Computer-Aided Diagnosis of Solid Breast Nodules using an Artificial Neural Network Approach and Expert System", National Conference High Performance Computing and Communications, R.M.K Engineering College, Kaveraipeetai, Tamilnadu, September 15-16 2005.

Edited Books and Book Chapters

Edited Books

Published

1. Vinod Kumar Shukla, P.M. Kulkarni, Deepika Gaur, **Pradeep N.**, Jean Paolo G. Lacap and Amina Omrane, "Industry 4.0 and People Analytics: A technical perspective of HRM", Academic Apple Press.
2. Mangesh Ghonge, **Pradeep N**, Noor Jhanjhi, Praveen Kulkarni, "Advances in Explainable AI Applications for Smart Cities", DOI: 10.4018/978-1-6684-6361-1 ISBN13: 9781668463611 | ISBN10: 166846361X | EISBN13: 9781668463635. Available at: <https://www.igi-global.com/book/advances-explainable-applications-smart-cities/301208>
3. Mangesh M. Ghonge, **Pradeep Nijalingappa**, and Renjith V. Ravi, "Semantic Intelligent Computing and Applications", De Gruyter Publishers, Germany. [Indexing: Scopus]
4. Sandeep Kautish, Prasenjit Chatterjee, Dragan Pamucar, **Pradeep N**, and Deepmala Singh, "Computational Intelligence for Modern Business Systems - Emerging Applications and Strategies", Springer Singapore. <https://doi.org/10.1007/978-981-99-5354-7>, Hardcover ISBN: 978-981-99-

5353-0, eBook ISBN: 978-981-99-5354-7, Published: 04 November 2023.
Website: <https://link.springer.com/book/10.1007/978-981-99-5354-7>

5. Mangesh M Ghonge, **Pradeep N**, Amar Das, Yulei Wu and Om Pal
"Unleashing the potentials of Blockchain Technologies in Healthcare Industries,
Elsevier Publishers,2023, Paperback ISBN: 9780323994811, eBook
ISBN: 9780323994828, Available at: <https://shorturl.at/glnIQ> , [Indexing:
Scopus]
6. Manoj Kumar M V, B. Annappa, **N. Pradeep**, Sandeep Kautish and Vijayakumar
Varadarajan, "Advances in Data Science Driven Technologies" (Vol. title:
Computer Assistive Technologies for Physically and Cognitively Challenged
Users), Bentham Science Publishers, 2023, ISBN:978-981-5079-16-6, eISBN:
978-981-5079-15-9 (Online) Available at:
<https://benthambooks.com/preorder/9789815079159>
7. **Pradeep N** and Sandeep Kautish, "Leveraging AI Technologies for Preventing and
Detecting Sudden Cardiac Arrest and Death", published by IGI Publishers, USA,
DOI: 10.4018/978-1-7998-8443-9, ISBN13: 9781799884439, Available at:
<https://www.igi-global.com/book/leveraging-technologies-preventing-detecting-sudden/270786>
8. Mangesh M Ghonge, **Pradeep N** and Ahmed J Obaid, "Understanding Pattern
Analysis", Nova Science Publishers, New York, USA, ISBN: 9781685079512,
Available at: <https://novapublishers.com/shop/understanding-pattern-analysis/>
9. S B Goyal, **Pradeep N**, Piyush Kumar Shukla, Mangesh M Ghonge and Renjith V
Ravi, "Utilizing Blockchain Technologies in Manufacturing and Logistics
Management", IGI Publishers, USA. DOI:10.4018/978-1-79988697-6,
ISBN13: 9781799886976,Available at: <https://www.igi-global.com/book/utilizing-blockchain-technologies-manufacturing-logistics/272669>
10. **Pradeep N** and Mangesh Manikrao Ghonge, "Blockchain Technologies and
Applications for Digital Governance", published by IGI Global, USA.
ISBN13:9781799884934;ISBN10:1799884937;ISBN13Softcover:978179988491;
EISBN13: 9781799884958 DOI: 10.4018/978-1-7998-8493-4, November 2021,
Available at: <https://www.igi-global.com/book/blockchain-technologies->

[applications-digital-governance/271270](#)

11. Roshani Raut, Pranav Pathak, Sandeep Kautish and **Pradeep N**, "*Intelligent Systems for Rehabilitation Engineering*", Wiley-Scrivener Publishers, ISBN -13: 9781119785668, ISBN-10: 1119785669 ISBN-13: 9781119785668, 2022. Available at: [https://www.wiley.com/enie/Intelligent+Systems+for+Rehabilitation+ Engineering-p-9781119785668](https://www.wiley.com/enie/Intelligent+Systems+for+Rehabilitation+Engineering-p-9781119785668). [Indexing:Scopus]
12. **Pradeep N**, Sandeep Kautish and Sheng Lung Peng, "*Demystifying Big Data, Machine Learning and Deep Learning for Healthcare Analytics*", Elsevier Publishers, DOI: 10.1016/C2019-0-03651-5, Paperback ISBN: 9780128216330, eBook ISBN: 9780128220443, Published on 10th June 2021, Available at: <https://www.elsevier.com/books/demystifying-big-data-machine-learning-and-deep-learning-for-healthcare-analytics/n/978-0-12-821633-0>
13. **N. Pradeep**, Sandeep Kautish, C.R. Nirmala, Vishal Goyal and Sonia Abdellatif, "*Modern Techniques for Agricultural Disease Management and Crop Yield Prediction*", 2019, IGI Global, USA. LCCN:2019005482|ISBN 9781522596325 (hardcover)|ISBN 9781522596332 (softcover)|ISBN 9781522596349 (ebook), DOI:10.4018/978-1-5225-9632-5 [**Scopus Indexed**]. Available at: <https://www.igi-global.com/book/modern-techniques-agricultural-disease-management/222503>

In Progress

1. Yousaf Bin Zikria, Vinod Kumar Shukla, **Pradeep N**, Manoj Kumar M V, Harry Haoxiang Wang and Ali Kashif Bashir, "*Industry 5.0: A New Revolution Through Human-Centric Solution*", to be published by De Gruyter Publishers, Germany.
2. **Pradeep Nijalingappa**, Gururaj T, S. B. Goyal, Vinod Shukla, and Alessandro Bruno" "*Examining the Metaverse in Healthcare: Opportunities, Challenges, and Future Directions*", ISBN13: 9798369315156; EISBN13: 9798369315163. Available at: <https://www.igi-global.com/book/examining-metaverse-healthcare/328582>

Book Chapters

1. Roopa G M, Chethana Prakash and **Pradeep N**, "*Computer Vision-Based Assistive Technology for Blind and Visually Impaired People: A Deep Learning Approach*", Computer Assistive Technologies for Physically and Cognitively Challenged Users,

Editors: Manoj Kumar M.V, Immanuel Azaad Moonesar R.D., Ananth Rao, **Pradeep N**, Annappa, Sandeep Kautish, Vijayakumar Varadarajan, Book Series Title: Advances in Data Science-Driven Technologies, Volume 2, Bentham Science Publishers, 2023, ISBN: 978-981-5079-16-6 (Print), ISBN: 978-981-5079-15-9 (Online), DOI:10.2174/97898150791591230201.

2. Renjith V. Ravi, Mangesh Ghonge, and **Pradeep N** "*Foundations, need, state-of-the-art blockchain technologies, its adaptations, and impact on healthcare industries*", Unleashing the Potentials of Blockchain Technology for Healthcare Industries, **Editors:** Mangesh M. Ghonge, **Pradeep N.**, Amar Das, Yulei Wu, Om Pal, Academic Press, Elsevier, 2023, ISBN: 9780323994811, <https://doi.org/10.1016/B978-0-323-99481-1.00005-5>, (<https://www.sciencedirect.com/science/article/pii/B9780323994811000055>)
3. Jayalakshmi G, Mangesh Ghonge, **Pradeep N**, "*Blockchain: inherent security features of blockchain popularity and its security architecture*" Unleashing the Potentials of Blockchain Technology for Healthcare Industries, **Editors:** Mangesh M. Ghonge, Pradeep N., Amar Das, Yulei Wu, Om Pal, Academic Press, Elsevier, 2023, ISBN 9780323994811, <https://doi.org/10.1016/B978-0-323-99481-1.00013-4>, (<https://www.sciencedirect.com/science/article/pii/B9780323994811000134>)
4. Arun Kumar G. Hiremath and **Pradeep N** "*Emotional and Social Intelligence with Decision-Making Paradigms for Industry 4.0*", Industry 4.0 and People Analytics: A Technical Perspective of HRM, **Editors:** Vinod Kumar Shukla, Praveen Kulkarni, Deepika Gaur, Pradeep N, Jean Paolo G. Lacap, Amina Omrane, CRC Press. [In Press]
5. Naveen Kumar K. R., Roopa G. M., and **Pradeep N** "*Impact of COVID-19 on Emotional and Social Intelligence in Corporate Sectors*", Industry 4.0 and People Analytics: A Technical Perspective of HRM, **Editors:** Vinod Kumar Shukla, Praveen Kulkarni, Deepika Gaur, Pradeep N, Jean Paolo G. Lacap, Amina Omrane, CRC Press. [In Press]
6. Ghonge M.M., **N Pradeep**. "*Software-Defined Network-Based Vehicular Ad Hoc Networks: A Comprehensive Review*". Software Defined Networking for Ad Hoc Networks, **Editors:** Ghonge M.M., Pramanik S., Potgantwar A.D. EAI/Springer

Innovations in Communication and Computing. Springer, Cham. 2021, DOI:10.1007/978-3-030-91149-2_2

7. Mangesh Manikrao Ghonge, **N. Pradeep**, Renjith V. Ravi, and Ramchandra Mangrulkar, "A Comprehensive Review of the Security and Privacy Issues in Blockchain Technologies", *Blockchain Technologies and Applications for Digital Governance*, **Editors:** Mangesh Manikrao Ghonge and **N. Pradeep**, IGI Global, 2021, pp. 180-199, DOI: 10.4018/978-1-7998-8493-4.ch008
8. Manoj Kumar M V, **Pradeep N** and Sanjay H A, "Predictive Analysis and Modelling in Healthcare Systems", *Demystifying Big Data, Machine Learning and Deep Learning for Healthcare Analytics*, **Editors:** **Pradeep N**, Sandeep Kautish and Sheng Lung, Peng Elsevier Publishers.
9. G. Madhu, B Lalith, B Rohit, K Sai Vardhan, Sandeep Kautish and **Pradeep N**, "Convolutional Siamese Networks for One-Shot Malaria Parasites Recognition in Microscopic Images", *Demystifying Big Data, Machine Learning and Deep Learning for Healthcare Analytics*, **Editors:** **Pradeep N**, Sandeep Kautish and Sheng Lung Peng, Elsevier Publishers.
10. Rajesh T M, Kavyashree Dalawai and **Pradeep N** "Automatic Data Acquisition and Spot Disease Identification System in Plants Pathology Domain: Agricultural Intelligence System in Plant Pathology Domain", *Modern Techniques for Agricultural Disease Management and Crop Yield Prediction*, **Editors:** **N. Pradeep**, et al., IGI Global, 2020, pp. 111-141. DOI:10.4018/978-1-5225-9632-5.ch006
11. Santosh K.C. and **Pradeep N.**, "Knowledge Discovery (Feature Identification) from Teeth, Wrist and Femur Images to Determine Human Age and Gender". In: Jain V., Chatterjee J. (eds), *Machine Learning with Healthcare Perspective, Learning and Analytics in Intelligent Systems*, vol 13., 2020, Springer, Cham. DOI:10.1007/978-3-030-40850-3_7, **Editors:** Vishal Jain, Jyotir Moy Chatterjee.
12. Roopa G M, **Pradeep N** and Arun Kumar G H, "AGRO-CHAIN: Blockchain Powered Micro-Financial Assistance for Farmers", *Blockchain Based Security Solutions for Big Data and IoT Applications*, **Editors:** Dr. Arun Solanki, Dr.

Loveleen Gaur and Dr. Vishal Jain, to be published by Apple Academic Press. [In Press]

13. Roopa G M, Shryavani K, **Pradeep N** and Vicente Garcia Diaz, "*Perception of Artificial Intelligence for Translational Research: Future of Healthcare*", Advanced Artificial Intelligence Techniques and its Applications in Bioinformatics, **Editors:** Dr Loveleen Gaur, Dr Arun Solanki, Dr Samuel Fosso Wamba and Dr Noor Zaman Jhanjhi, to be published by Taylor and Francis, CRC Press. [In Press]

Certifications/Training

1. Successfully completed "**Applied Generative AI**" Certification, in Infosys Springboard platform, Infosys Limited in November 2nd 2023.
2. Successfully completed "**Principles of Generative AI**" Certification, in Infosys Springboard platform, Infosys Limited in October 9th 2023.
3. Passed NPTEL Online Exam Certificate Course on "**Patent Drafting for Beginners**" (July-August 2023) (4 Week Course).
4. Completed Innovation Ambassador Training "**Foundation Level**" conducted in online mode by MOD's innovation cell and AICTE during the ICC calendar year 201-2022. [Date of Issue: 08-10-2022, E-certificate No.: IA/Foundation/1019618, IIC ID: IC202015389.]
5. Completed Innovation Ambassador Training "**Advanced Level**" conducted in online mode by MOD's innovation cell and AICTE during the ICC calendar year 201-2022. [Date of Issue: 08-10-2022, E-certificate No.: IA/Advance/119618, IIC ID: IC202015389.]
6. Completed "**Journal Citation Reports Certification Series-2022**", Clarivate, 10-08-2022, Certificate ID:661037
7. Completed certified course on "**Digital Teaching Techniques**", ICT Academy, India, 26-12-2020, Verification No.: DTT-7672.
8. Online Faculty Enablement Program on "**Python Programming**" through INFYTQ platform from 06-07-2020 to 13-07-2020 conducted by Infosys Limited and awarded with A+ Grade.
9. Passed NPTEL Online Certificate Course on "**NBA Accreditation and Teaching - Learning in Engineering (NATE)** (January-April 2020) (12 Weeks)" with score 66%.

10. **"Mission10X Certification"** Course have been successfully completed and approved by Mission10X group from Wipro Technologies Pvt. Ltd., Bangalore.

Seminars/Workshops/Events Organized

1. As a part of CSR Initiative from CSS Corp, organised training program for 50 students for 110 hrs on "*Technology & Soft skills - Hardware & Networking*", in association with ICT academy.
2. Joint Organizing Chair for 2015-IEEE technical sponsored International Conference on "*Applied and Theoretical Computing and Communication Technology*" from 29th October 2015 to 31st October 2015 at Bapuji Institute of Engineering and Technology, Davanagere.

FDP/Seminars/Workshops Attended

1. Attended 5-Day Faculty Development Program on Data Science'22 - Contemporary Tools and Techniques, from 12-12-2022 to 16-12-2022, conducted by Department of Information Science and Engineering, Nitte Meenakshi Institute of Technology, Bengaluru, India.
2. One Week Online Indo-German SPARC Symposium cum Workshop on "Recent Advances in Machine Translation (RAMT-2021)", 15-03-2021 to 19-03-2021 organized by National Institute of Technology Silchar, Assam, India.
3. Five days ATAL Online FDP on "Leadership and Excellence" from 07-09-2020 to 11-09-2020 organized by Indian Institute of Technology, Hyderabad, India
4. Five days Faculty Development Program on "Data Science and Big Data Analytics", conducted by ICT Academy on 21-01-2020 to 25-01-2020 at Bapuji Institute of Engineering and Technology, Davangere, Karnataka, India.
5. VTU TEQIP 1.3 Sponsored 5 days Faculty Development Programme on "Implementation of Outcome Based Education in Higher Educational Institutions", organized by SIT, Tumkuru, Karnataka, India from 8th July to 12th July 2019.
6. Five days Faculty Development Programme on "Soft Computing Approaches to Image Processing and Pattern Recognition" conducted by CS & E dept., Basaveshwara Engineering College (Autonomous), Bagalkot from March 20th to 24th March 2010.
7. Five days workshop on "High Impact Teaching Skills" conducted by Wipro Technologies Pvt. Ltd. conducted in BIET, Davangere from Feb 2nd to Feb 8th 2010.

8. Two days workshop on "Research Methodologies" conducted by VTU at MSRIT, Bangalore during May 2009.
9. QIP –Short Term Faculty Development program on "Ubiquitous Computing" conducted by IISC in Bangalore during 2005. Attended a short-term course on "Constitution of India and Philosophical Ethics "conducted by BIET, Davangere, during 2005.
10. Short-term course on "Quality of Service on Internet "conducted by BIET, Davangere, during 2005.
11. Short-term course on "Unleash the Full Potential of Power Linux" conducted by BIET, Davangere, during 2004.
12. One day workshop to finalize the VTU syllabus for B.E. (CSE/ISE) branches during 2004, held at KLE's Gogte Institute of Technology., Belagavi.

Extra/Co-Curricular Activities

1. Reviewer for reputed International Journals, edited books, and international conferences.
2. Session Chair and Advisory Committee Member and Technical Committee Member for various International Conferences.
3. Active participation in organizing and hosting the department forum activities
4. SPoC for Smart India Hackathon 2017, 2018, 2019, 2020 and 2021

Research Plan

Research Plan for the next FIVE years

- To become Adjunct Professor in International Universities.
- To get research grants from funding agencies like AICTE/DST/VGST/ICMR and other funding agencies.

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