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## FACULTY PROFILE

**Name** : Dr. Veerappa B. Pagi



**Designation** : Professor and Head  
**Department** : Computer Science and Engineering  
**Employee ID** : TCS026  
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(College official ID), [veereshpagi@gmail.com](mailto:veereshpagi@gmail.com), [veerappapagi@gmail.com](mailto:veerappapagi@gmail.com)  
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**Contact details** : Plot No. S-114, Sector No. 63,  
Navanagar, BAGALKOT – 587 103,  
Karnataka State, India

**Orcid ID** : 0000-0001-9555-0707

**Scopus ID** : 3517 7973 900

**Vidwan Id** : 125149

**Researcher ID (Web of Science)** : AAD-1948-2021

**Google Scholar ID** : O90szaYAAAAJ

**Qualification** : Ph. D. (Computer and Information Sciences)

**Professional Experience** : 27 Years

Teaching experience : 27 Years

Industry experience : Nil

**Administrative Responsibilities** :  
1. Head of Department of CSE, Dec 2020 to till date  
2. Head of Department of CSE, Oct. 2014 to Dec 2018  
3. Head of Department of MCA, Dec 2007 to Sept. 2014

**No. of Projects Guided**

UG : 32

PG : 10

**Research**

Interest Area : Pattern Recognition  
Non-speech Sound Processing  
Data Mining

**No. of Research Scholars**

Pursuing : **02**  
 Awarded : **01**  
 Patents : *Nil*  
 Research Grants : *Nil*  
 Publications : *Ramesh S. Wadawadagi and Veerappa B. Pagi, Sentiment Analysis on Social Media: Recent Trends in Machine Learning, (Book Chapter) In: Arun S., Sandeep K. & Anand N. (eds). Chapter 24: Handbook of Research on Emerging Trends and Applications of Machine Learning, IGI Global, January 2020, pp. 508-527*  
 Books/Chapters

**Journals (with citations)** : *International Journals*

1. *Ramesh Wadawadagi, Veerappa Pagi, "Polarity Enriched Attention Network for Aspect-Based Sentiment Analysis", International Journal of Information Technology, <https://doi.org/10.1007/s41870-022-01089-3>, September 2022, vol. 14, pp. 2767–2778 (Indexed in Baidu, CLOCKSS, CNKI, CNPIEC, Dimensions, EBSCO Discovery Service, Google Scholar, and INSPEC (2022-23))*
2. *2021 Bhargav and Veerappa B Pagi, "A Comprehensive Review of Kannada Handwritten Document Recognition", International journal of grid and distributed computing(IJGDC),ISSN: 2005-4262,Vol.14,issue 1,pp.461-483,2021 (Published on 05-04-2021) (2020-21)(PhD)(Listed in Scimago, h-index 12) Indexed in EBSCO, ProQuest, ULRICH, DOAJ, J-Gate, Cabell, Emerging Sources Citation Index (ESCI) (2020-21)*
3. *Wadawadagi R. S. &Pagi V. B, Sentiment analysis with deep neural networks: comparative study and performance assessment, Artificial Intelligence Review, Vol. 53, Issue 8, pp. 6155–6195, 2020, Springer-Nature, Indexed in Scopus, ACM,DBLP*
2. *Wadawadagi R. S. &Pagi V. B, An enterprise perspective of web content analysis research: A strategic road-map, International Journal of Knowledge and Web Intelligence, vol 6, no 2, 2019, Inderscience, pp. 51-88, Indexed in Scopus, ACM,DBLP*
3. *Wadawadagi R. S. &Pagi V. B., A multi-layer approach to opinion polarity classification using augmented semantic tree kernels, Journal of Experimental & Theoretical Artificial Intelligence, vol. 31, no. 3, 2019, Taylor and Francis, pp. 349-367, Indexed in Scopus, ACM, DBLP*
4. *Ramesh S. Wadawadagi and Veerappa B. Pagi, A Multi-*

*Layer Approach to Opinion Polarity Classification using Augmented Semantic Tree Kernels*, Accepted for Publication in *Journal of Experimental & Theoretical Artificial Intelligence (TETA)*, DOI: 10.1080/0952813X.2018.1549108, Published online: 20 December 2018, pp. 1-19, Impact Factor: 1.011

5. Ramesh S. Wadawadagi, Veerappa B. Pagi, *An enterprise perspective of Web content analysis research: A strategic road-map*, Accepted for publication in *International Journal of Knowledge and Web Intelligence (IJKWI)*, Inderscience Publishers, 2019, vol. 6, Issue 2, pp.51 - 88
6. V. B. Pagi, Shrutidevi Patil and Basavaraj Patil, "Content based Image Retrieval based on Color, Texture and Shape features", *International Journal of Advanced Research in Engineering, Science and Technology (IJAREST)*, vol. 04, issue 06, July 2017, pp. 16-23, Impact Factor 5.301
7. V. B. Pagi and Pooja Desai, "Braille to Speech Conversion using Seam Carving Algorithm", *International Journal of Advance Research in Engineering, Science & Technology (IJAREST)*, vol. 04, issue 06, July 2017, pp. 10-15, Impact Factor 5.301
8. V. B. Pagi and Nivedita Baragundi, *Gesture to English Letter Conversion for Sign Language*, *International Journal of Advance Research in Engineering, Science & Technology*, e-ISSN: 2393-9877, p-ISSN: 2394-2444 Volume 3, Issue 7, July-2016, pp. 132-145, Impact Factor 5.301
9. Pavan Chitrargar and V. B. Pagi, *Lemon Leaf Disease Detection and its Solution*, *International Journal of Advance Research in Engineering, Science & Technology* e-ISSN: 2393-9877, p-ISSN: 2394-2444 Volume 3, Issue 7, July-2016, pp. 66-75, Impact Factor 5.301
10. V. B. Pagi, R. S. Wadawadagi and B. S. Anami, *Multiple Fault Diagnosis of Motorcycles based on Acoustic Approach*, *International Journal of Advanced Information in Engineering Technology (IIAIET)*, Vol.2, No.2, February 2015, pp. 20-28
11. Basavaraj S. Anami, Ramesh S. Wadawadagi and Veerappa B. Pagi, *Machine Learning Techniques in Web Content Mining: A Comparative Analysis*, *Journal of Information & Knowledge Management*, Online ISSN: 1793-6926, Vol. 13, No. 1 (2014) World Scientific, DOI: 10.1142/S0219649214500051
12. Basavaraj S. Anami, Veerappa B. Pagi, 'Acoustic signal based detection and localization of faults in motorcycles', *IET Intelligent Transport Systems*, doi:

10.1049/iet-its.2012.0193, ISSN 1751-956X, June 2014, vol. 8, issue 4, p. 345-351

13. Basavaraj S. Anami and Veerappa B. Pagi, *Acoustic Signal-based Approach for Fault Detection in Motorcycles using Chaincode of the Pseudospectrum and Dynamic Time Warping Classifier*, *IET Intelligent Transport Systems*, doi: 10.1049/iet-its.2012.0086, Volume 8, Issue 1, February 2014, p. 21 – 27
14. Veerappa B. Pagi, Basavaraj S. Anami and Ramesh S. Wadawadagi, *Acoustic Pseudospectrum based Fault Localization in Motorcycles*, *International Journal on Computational Sciences & Applications (IJCSA) Vol.3, No.3, June 2013*, DOI:10.5121/ijcsa.2013.3307, pp. 79-89
15. Basavaraj S. Anami and Veerappa B. Pagi, *Localization of multiple faults in motorcycles based on the wavelet packet analysis of the produced sounds*, Published in *IET Intelligent Transport Systems*, Accepted on 27th April 2013, doi: 10.1049/iet-its.2013.0037 ISSN 1751-956X, Volume 7, Issue 3, September 2013, pp. 296–304
16. Basavaraj S. Anami and Veerappa B. Pagi, *Acoustic Signal based Fault Detection in Motorcycles – A Comparative Study of Classifiers*, *International Journal of Image, Graphics and Signal Processing*, DOI: 10.5815/ijigsp.2013.1.02 Published Online October 2012 in MECS (<http://www.mecs-press.org/>), January 2013, pp. 8-15
17. Basavaraj S. Anami and Veerappa B. Pagi, 'Fault detection and localization in motorcycles based on the chain code of pseudospectra and acoustic signals', *Journal of Mechanical Engineering and Sciences (JMES)* ISSN (Print): 2289-4659; e-ISSN: 2231-8380; Volume 4, pp. 440-451, June 2013
18. Basavaraj S. Anami and Veerappa B. Pagi, 'Acoustic signal based fault detection of motorcycles using slope vector of the estimated pseudospectrum', *International Journal of Signal Processing, Image Processing and Pattern Recognition* Vol.6, No.5 (2013), pp.57-70
19. Basavaraj S. Anami, Veerappa B. Pagi, and Sangamesh M. Magi, *Comparative Performance Analysis of Three Classifiers For Acoustic Signal Based Recognition of Motorcycles using Time- and Frequency-domain features* Institution of Engineering and Technology (IET)-Intelligent Transport Systems doi: 10.1049/iet-its.2011.0162, 2012, vol. 6, issue 3, pp. 235-242
20. Basavaraj S. Anami and Veerappa B. Pagi, *Multi-fault source localization in motorcycles based on wavelet packets of the sound signals*, *International Journal of Applied Artificial Intelligence in Engineering System*

(July-Dec 2012), Vol. 4, No. 2, 2012, ISSN: 0975-3176, pp. 135-150

21. Basavaraj S. Anami and Veerappa B. Pagi, *Integration of Pseudospectral Segments of Sound Signals for Fault Location in Motorcycles*, *SERSC International Journal of Advanced Science and Technology*, Vol. 47, October 2012, pp. 77-90
22. Basavaraj S. Anami and Veerappa B. Pagi, 'Multi-stage acoustic fault diagnosis of motorcycles using wavelet packet energy distribution and ANN', *Accepted for publication in SERSC International Journal of Advanced Science and Technology (December 2012), International Journal of Advanced Science and Technology Vol. 49, December, 2012 , pp. 47-62*
23. Basavaraj S. Anami, Veerappa B. Pagi, and Sangamesh M. Magi, *Wavelet based acoustic analysis for determining health condition of two-wheelers*, *Elsevier Journal of Applied Acoustics*, vol. 72, issue 7, 2011, pp.464-469

## Conferences

: International Conference

1. Wadawadagi R. S. &Pagi V. B, *Disaster severity analysis from micro-blog texts using Deep-NN*, *Proceedings of International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2020)*, NITK Surathkal, 4-5 January 2020, Later published in *Advances in Intelligent Systems and Computing*, Springer-Nature, In Press, Indexed in Scopus, DBLP
2. Wadawadagi R. S. &Pagi V. B., *Fine-grained Sentiment Rating of Online Reviews with Deep-RNN*, *Proc. of International Conference on Advances in Artificial Intelligence and Data Engineering (AIDE 2019)*, May 23-24, 2019, NMAMIT Nitte, Springer-Nature, Indexed in Scopus, DBLP
3. Ramesh S. Wadawadagi and Veerappa B. Pagi (2018), *A Deep Recursive Neural Network Model for Fine-Grained Opinion Classification*. In *Proceedings of International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R-2018)*, 21-22 December 2018, Solapur University, Solapur, *Communications in Computer and Information Science*, Springer-Nature, 2019, Indexed in Scopus and DBLP
4. Bhargav H. K. and V. B. Pagi *A Comprehensive Review of Text Recognition from Kannada Handwritten Documents*, *6th International Conference on Chip, Circuitry, Current, Coding, Combustion & Composites i7C-2018*, 28th - 29th November, 2018, Sri Sairam College of Engineering, Bengaluru
5. Veerappa B. Pagi, Bhargav H. K. and Ramesh S.

*Wadawadagi, Paragraph Segmentation of Kannada Handwritten Document with Skewed Content, 6th International Conference on Chip, Circuitry, Current, Coding, Combustion & Composites i7C-2018, 28th - 29th November, 2018, Sri Sairam College of Engineering, Bengaluru*

6. *Veerappa B. Pagi, Ramesh S. Wadawadagi, Soumya Patil and Neha Kulkarni, Twitter Sentiment Analysis: Techniques and Applications, 6th International Conference on Chip, Circuitry, Current, Coding, Combustion & Composites i7C-2018, 28th - 29th November, 2018, Sri Sairam College of Engineering, Bengaluru*
7. *Veerappa B. Pagi and Vinod Biradar, A Survey of Navigation system for Visually Impaired using Multimedia, 6th International Conference on Chip, Circuitry, Current, Coding, Combustion & Composites i7C-2018, 28th - 29th November, 2018, Sri Sairam College of Engineering, Bengaluru*
8. *V. B. Pagi and R. S. Wadawadagi, Opinion content extraction from Web pages using embedded semantic term tree kernels, Accepted for International Conference on Computational Intelligence and Data Engineering (ICCIDE-2017), organized by Laki Reddy Balireddy College of Engineering, Mylavaram, India, on 14, 15 July 2017*
9. *V. B. Pagi, R. S. Wadawadagi and B. S. Anami, Severity Analysis of Motorcycle Faults Based on Acoustic Signals, International Conference on Cognition and Recognition (ICCR 2016), Maharaja Institute of Technology, Mysore, 30-31 December 2016, (Published in Lecture Notes on Data Engineering and Communications Technologies (LNDECT) series of Springer), Lecture Notes in Networks and Systems 14, DOI 10.1007/978-981-10-5146-3\_5, pp. 41-54*
10. *V. B. Pagi, R. S. Wadawadagi and B. S. Anami, Fault Localization in Motorcycles using Wavelet Packet Energy Distribution, IEEE International Conference on Soft Computing and Network Security (ICSNS), SNS College of Technology, Coimbatore, India, 25-27 February 2015*
11. *V. B. Pagi, R. S. Wadawadagi and B. S. Anami, An Acoustic Approach for Multiple Fault Diagnosis in Motorcycles, IEEE International Conference on Soft Computing and Network Security (ICSNS), SNS College of Technology, Coimbatore, India, 25-27 February 2015*
12. *V. B. Pagi, R. S. Wadawadagi and B. S. Anami, Empirical Study of Features and Classifiers for Fault Diagnosis in Motorcycles Based on Acoustic Signals,*

*International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT - 2015), Bapuji Institute of Engineering and Technology, Davangere, 29-31 October 2015, DOI: 10.1109/ICATCCT.2015.7456966, pp. 659 – 664*

13. Basavaraj S. Anami and Veerappa B. Pagi, *An Acoustic Signature Based Neural Network Model for Type Recognition of Two-Wheelers*, IMPACT-2009, IEEE International Conference on Multimedia Systems, Signal Processing and Communication Technologies 14-16 March-2009, Aligarh, pp 28-31
14. B. S. Anami, S. A. Angadi, V. B. Pagi and M. A. Bharathi, *A Knowledge Based Technique for Automatic Recognition of Traffic Signs*, Proceedings of the International Conference on Cognition and Recognition, 22-23 December 2005, PES College of Engineering, Mandya, India, pp. 603-614

#### *National Conference*

1. Roshani Miraje and V.B. Pagi, “Kannada Character Recognition from Printed Documents”, 7th National Conference on Recent Advances in Technology and Engineering (RATE-2018), at T. John Institute of Technology, Bengaluru, June 29th and 30th, 2018
2. Vandana Athani and V.B. Pagi, “Kannada Character Recognition from Printed Documents”, 7th National Conference on Recent Advances in Technology and Engineering (RATE-2018), at T. John Institute of Technology, Bengaluru
3. Priyank M. Kambagi and V. B. Pagi, “Comparative Analysis of Multimodal Biometric Authentication using Signature, Face and Voice”, National Conference on Multimedia Technologies and Communication Systems (NCMTCS-2017), at Malnad College of Engineering, Hassan, on 17, 18 March 2017
4. Mallikarjun Masarakal and Veerappa B. Pagi, “Learning Techniques in Face Recognition from Partial Image: A Comparative Analysis”, National Conference on Emerging Trends and Advances in Information Technology Department of CS & E, Adichunchanagiri Institute of Technology, Chikkamagaluru, January 29th & 30th, 2016
5. Basavaraj Anami, Basavaraj Amarapur, S. A. Angadi, V. B. Pagi and Shobha Channal, “The Invariant Moment method for leaf Image recognition based on segmentation: A Neural Network Approach, Proceedings of National conference on Document

*Analysis & recognition (NCDAR-2001), 13-14 July 2001, PES College of Engineering, Mandya, India, pp. 130-139*

**Invited Talks**

- :
1. UHS Bagalkot, "AI in Agriculture", on 20th October 2022, during All India Agri Start-up Convention-2022 (2022-23)
  2. ATME Mysore, "AI in Intelligent Agriculture", on 25th March 2022, during SERB sponsored National Seminar on Research Avenues in AI and Allied Areas, from 24th to 26th March 2022
  3. GPT Bagalkot, "Bridging the gap between Industry and Academia", on 4th March 2021, during AICTE - ISTE Sponsored Online Refresher Programme on "Preparation of Lab Manual & Project Evaluation" (2020-21)
  4. RYMEC Ballari, "Applications of Data Science", on 14th January 2020, at RYMEC Ballari, during AICTE Sponsored Two Weeks Faculty Development Program on Hands on Practice of Python with Data Science, conducted on 13th Jan 2020 to 25th Jan 2020
  5. GPT Bagalkot, "Research-Current Scope and Trends", on 2nd November 2019, during CCTEK-One week STTP training program on "Research Methodology", organized by GPT Bagalkot from 2nd December 2019 to 6th December 2019
  6. "Research Methodology and Issues in CSE", at BLDEA's Vachana Pitamaha Dr. PGH Institute of Technology, Vijayapur, FDP on Research Methodology and Issues, 8th-12th June 2015
  7. "Open Research Issues in Image Processing", at Sai Vidya Institute of Technology, Bengaluru, on 29th April 2015, during VTU Sponsored two days National Conference on advances in computing & Communication Technologies (NCACCT-15) on topic "Research Issues in Image Processing" during 28th and 29th April 2015
  8. "Image Processing Applications to Agriculture", on 29th January 2015, at Navodaya Institute of Technology, Raichur, during one week Faculty Development Programme on "Digital Image Processing and its Applications", from 27th to 31st January 2015
  9. SECAB Institute of Engineering and Technology, Bijapur, on "Teaching – Perspectives and Challenges", on 28th December 2013
  10. KLE Institute of Technology, Hubli, on "Career Opportunities for MCA graduates", on 16-10-2012
  11. Basaveshwar Science College, Bagalkot, on "Artificial Intelligence and Expert Systems" in 2008



	<p>12. University of Agricultural Sciences, Dharwad, on "Image Processing applications in Agriculture", on 20-09-2007.</p> <p>13. "8087 Architecture and Programming", BVVS Polytechnic Bagalkot, during AICTE-ISTE sponsored STTP on "Microprocessors – Programming and Applications", held from 15th to 27th November 1999</p>
<b>Events Organized</b>	<p>: 1. Research Avenues in Information Technology (under TEQIP-III), from 3rd June to 7th June 2019 (Coordinators: V. B. Pagi, S. R. Patil and L. B. Bhajantri)</p> <p>2. CSI-Electronic System Design and Manufacturing Workshop jointly organized by BEC, CSI-Bangalore chapter, Sponsored by Govt. of Karnataka -IT &amp; BT, and Consortium of Electronic Industries Karnataka, on 29th and 30th March 2016, for the faculty, staff and students of Bagalkot and surrounding Engineering colleges</p> <p>3. ISRO Guest Lecture on "ISRO Satellite Remote Sensing Based Societal Applications on the Web", Sponsored by TEQIP-II, on 9th September 2016 for the students of circuit branches and MBA of our college.</p>
<b>Conferences/ Symposiums/ Workshops/ Training Programs Attended</b>	<p>: 1. 5 day Online FDP on Demystifying the Machine Learning Concepts, organized by BMSIT&amp;M Bengaluru, from 17-05-2021 to 21-05-2021.</p> <p>2. 5-day Online FDP on Online FDP on Universal Human Valuesfor DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna during 23 - 27 November 2020</p> <p>3. Open Society Problems and Computing Solutions in Python, 29,30 and 31 March 2017, at Basaveshwar Engineering College, Bagalkot</p> <p>4. TCS HeadStart, HoD's meet, 25th February 2016, TCS Bengaluru</p> <p>5. Managerial Capacity Enhancement, 26th to 28th September 2016, IIM Kozhikode</p> <p>6. Outcome Based Education, 18th December 2015, at BEC Bagalkot</p> <p>7. Management Capacity Enhancement, 16th July 2015 to 22nd July 2015, at IIM Indore</p> <p>8. Empowerment through Employment, 3i Summit, 2nd March 2015, at RiiiT Mysore</p> <p>9. Software Project Management, 14th December 2013, at RiiiT Mysore</p> <p>10. Senior Faculty Development Program, 11th to 13th November 2013, at BEC Bagalkot</p> <p>11. Linear Algebra and its applications, 24th to 28th January 2011, at JNN College of Engineering, Shimoga</p> <p>12. VTU Thesis Development using Latex, 1st January 2010,</p>

- at Jayachamarajendra College of Engineering, Mysore.*
- 13. Biologically Inspired Computing, from 7th to 10th June 2010, at Shri Jayachamarajendra College of Engineering, Mysore.*
  - 14. Research Methodologies and Report Writing, on 25th to 26th May 2009, KLS Gogte Institute of Technology, Belgaum.*
  - 15. Research Issues in Information Technology, February 26-28, 2009, at Basaveshwar Engineering College, Bagalkot*
  - 16. Faculty development programme on Computer Network Simulation, 21-02-2008 to 23-02-2008, at Basaveshwar Engineering College, Bagalkot*
  - 17. Basics of Wavelets and Applications, from 13-03-2008 to 15-03-2008, at Basaveshwar Engineering College, Bagalkot.*
  - 18. Speech and Image Processing, from 23-07-2007 to 28-07-2007, at Basaveshwar Engineering College, Bagalkot.*
  - 19. Digital Image Processing & Computer Vision, 4th and 5th May 2007, at Malnad College of Engineering, Hassan.*
  - 20. Vision R & D, from 20-03-2006 to 25-03-2006, at Basaveshwar Engineering College, Bagalkot.*
  - 21. Signal Processing & Its Applications, from 9th to 11th October 2006, at Basaveshwar Engineering College, Bagalkot.*
  - 22. Mathematical Modeling for Digital Image Processing, from 09-01-2006 to 14-01-2006, at Basaveshwar Engineering College, Bagalkot.*
  - 23. Infovision-2006- The knowledge Summit, on 28, 29 September 2006, at Hotel Le Meridian, Bangalore, organized by Confederation of Indian Industry (CII)*
  - 24. Digital Signal Processor & its applications, from 25th to 30th September 2006, at Basaveshwar Engineering College, Bagalkot.*
  - 25. Counseling Techniques, on 25th August 2006, at Basaveshwar Engineering College, Bagalkot.*
  - 26. C# and .NET, from 1st to 6th June 2006, at Basaveshwar Engineering College, Bagalkot.*
  - 27. Applied Mathematics, from 03-04-2006 to 08-04-2006, at Basaveshwar Engineering College, Bagalkot.*
  - 28. IBM iSeries 400 & As.400e, from 09-07-2001 to 21-07-2001, at Basaveshwar Engineering College, Bagalkot.*
  - 29. DB2, from 13-08-2001 to 18-08-2001, at BMSCE Bangalore.*
  - 30. Database Systems, from 19-11-2001 to 23-11-2001, at IIT Bangalore.*

*31. Advanced Microprocessor & PC Training, from 18-01-1999 to 11-02-1999, at UVCE Bangalore.*

*Webinars Attended:*

*1. Machine Learning, 27-06-2020, Resource Person: Mr. Veerashetty Dagade, Organized by GIT Belagavi*

**Awards and Honors**

- :**
- 1. Recognized for Outstanding Contribution in Reviewing for Elsevier journal “Measurements”, February 2017*
  - 2. Best paper presentation award on “Bharathadalli Muktha Thamthramsha – Ondu AvalOkana”, on 9th Kannada Science Conference held at Basaveshwar Engineering College, Bagalkot, 15th to 17th September 2012*