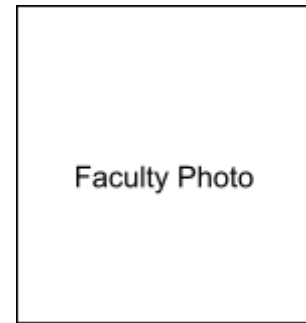


Faculty Profile

Brief Profile



Dr. Ashwini K. B. completed her PhD from Bharathiar University in 2016. She has over 20 years of experience in institutes and 2 years of industrial experience. Was a Pitch speaker at XR Summit at IIT Madras on 16th and 17th November 2024. Was a Resource person on various occasion at SIT Tumakuru, National College, BMSIT, Soundarya Institute of Management and Science, Dayananda Sagar College of Engineering, Dr. Ambedkar College of Engineering.

Personal Information

- **Name:** Dr. Ashwini K. B.
- **Designation:** Associate Professor
- **Department:** Information Science and Engineering
- **Email:** ashwinikb@rvce.edu.in
- **Phone:** 9972128486

Google Scholar :

https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=ashwinikb%40rvce.edu.in&btnG=

ResearchGate : <https://www.researchgate.net/profile/Ashwini-K-B>

Domain of Expertise

Computer Networks, Data Science, AR and VR, Wireless Sensor Networks, Cloud Computing.

Research Focus

- **Primary Area:** Virtual Reality, Augmented Reality, Data Analysis, Cloud Computing

Academic Qualifications

- **Ph.D.:** Computer Science, Bharathiar University, 2016 (*Thesis Title : Data Aggregation in wireless sensor networks*)
- **M.Sc./M.Tech:** Computer Science, Mangalore University, 2000

Professional Experience

Experience

S.No	Institute/College/Industry	Job Title	Duration (From- To)
1.	Industry	Software Engineer	2000 to 2002
2.	Institute	Teaching	2003 to 2025

Publications & Patents

Journal Publications

1. Ashwini KB, Mayuri Patwardhan, "Machine learning algorithms for improved script evaluation" 8th International Conference on Computational System and Information Technology for Sustainable Solutions (CSITSS) | 979-8-3315-0546-2/24/\$31.00 ©2024 IEEE | DOI: 10.1109/CSITSS64042.2024.10816825
2. Puja G. Ambalgekar, Ashwini K. B., "Comparison of Various Deep Learning Models Used to Detect and Classify Keratoconus Disease", International Journal of Innovative Technology and Exploring Engineering ISSN: 2278-3075 (Online), Volume-12 Issue-12, November 2023 (Q4)
3. Gurutaj Koni and Ashwini K B, "Augmented Reality Marketing: Must-have Tool to Stay in Business", Grenze International Journal of Engineering and Technology, Volume 9, Issue 1, January 2023, *Grenze ID: 01.GIJET.9.1.503_1*
4. Niranjana P Datta and Dr. Ashwini K.B., "Data Analysis in eSports: Optimizing Player and Team Performance", GIS SCIENCE JOURNAL, UGC Approved, VOLUME 9, ISSUE 6, June 2022 ISSN NO : 1869-939
5. Dr.Ashwini K. B. and Dr. R. Savitha, "Application of Augmented Reality Technology for Home Healthcare Product Visualization", published in the issue of "ECS Transactions" (ECST) on Technologies for Smart Green Connected Society in March 2022.
6. Dr. R. Savitha, Dr. Ashwini K. B. and Prof. Prashanth K, "Application of Blockchain Technology based secured online voting system", published in the issue of "ECS Transactions" (ECST) on Technologies for Smart Green Connected Society in March 2022.
7. Dr. Ashwini K. B. and Prashanth K. "A Framework for Energy Management in Smart City through Internet of Things" International Journal of Research in Engineering and Applied Sciences(IJREAS) Vol. 7 Issue 8, August-2017, pp. 9096 ISSN (O): 2249-3905, ISSN(P): 2349-6525
8. Dr. K.B.Ashwini and Dr. Usha J. "An Effective Outlier Detection-Based Data Aggregation for Wireless Sensor Networks" IJCTA ISSN: 2229-6093 SCOPUS INDEXED Nov-Dec 2016 Vol 7(6),768-772
9. K.B.Ashwini and G.T.Raju "An Analysis of Fault-Tolerance and Quality Aware Data Aggregation in WSN" IJCTA ISSN: 2229-6093 SCOPUS INDEXED Volume 5 Issue 2 March-April 2014 pages 695-698.
10. K.B.Ashwini and G.T.Raju "Inner-Cluster Data Aggregation for Wireless Sensor Networks" IJCSIT ISSN: 0975-9646 SCOPUS INDEXED Volume 5 Issue 3 2014 pages 3934-3936.
11. K.B.Ashwini and G.T.Raju "Extending Network Lifetime by Time-Constrained Data Aggregation in Wireless Sensor Networks" International conference on Advanced Computing Networking and Informatics SPRINGER INDEXED July 2013.

Conference Papers

1. Ashwini K B , Preethi N Patil and Savitha R, "Tracking Methods in Augmented Reality – Explore the Usage of Marker-Based Tracking", Second International Conference on IoT, Social, Mobile, Analytics & Cloud in Computational Vision & Bio-Engineering (ISMAC-CVB 2020)
2. Presented a paper in International conference at IoTsm "e-Drones: Air-to-Ground communications for Emergency Healthcare" Ashwini K B, Usha J, Preethi N Patil (will be published in SCOPUS index journal)
3. Presented a paper in International conference at IoTsm "A Comparative Study on Effective Diabetic Lesions Representation in Ophthalmic Imaging Techniques- Fundus Imaging versus OCT Imaging " Preethi N Patil , Usha J , Ashwini K B (will be published in SCOPUS index journal)
4. K.B.Ashwini and G.T.Raju " Towards optimal data gathering in Wireless Sensor Networks" International Conference on Advance Computer Theory and Engineering (ICACTE), ISBN: 987-9381361-18-8, 2nd September 2012 Bangalore.
5. K.B.Ashwini and G.T.Raju "Types of attack and intrusion detection system for wireless sensor networks" International Conference on Current Trends in Advance Computing April 19th and 20th 2010 Bangalore

Books/Book Chapters

1. A book chapter, "Analysis and clustering of sensor recorded data to determine sensors consuming the least energy", published in **Wiley** ISBN: 978-1-119-68253-0 January 2022
2. A book chapter, "Immersive Learning about IC-Engine using Augmented Reality" published in Springer Nature Switzerland AG, Switzerland, Part of the EAI/Springer Innovations in Communication and Computing book series (EAIISCC) July 2021 **Electronic ISSN 2522-8609 Print ISSN 2522-8595 (Q4)**
3. A book chapter, "Extending Network Lifetime by Time Constrained Data Aggregation in Wireless Sensor Networks", Intelligent Computing, Networking and Informatics, Springer India 2014 (Q4)

R & Grants & Consultancy Projects

Ongoing & Completed Research Projects

- **Project Title:** Center for Upliftment and personality Development of SC/ST Students for better outreach, **Funding Agency:** AICTE New Delhi, **Duration:** 3Years, **Role:** Co-PI. (Completed)
- **Project Title:** Prototype development for early detection of Keratoconus Disease, **Role:** Co-PI.(Ongoing)
- **Project Title:** Investigator for the project AI Enabled Underwater Drone, **Role:** Co-PI.(Ongoing)

Ongoing & Completed Consultancy Projects

- **Project Title:** Spinning Machine, **Funding Agency:** Asmi Control Systems Private Limited, **Duration:** 1Year, **Role:** PI. (Completed)

Professional Memberships

- IEEE, CSI, IFRP

Awards & Recognitions

- **Award Name:** Ph.D degree in Computer Science , **Organization:** Hoysala Karnataka Sanga, **Year:**2017

Student Supervision

- **M.Tech/M.Sc. Students:** 16
- **Undergraduate Research Mentees:** 40

Teaching

Core Courses: [Current semester]

- CD343AI – Design and Analysis of Algorithms
- IS125AID – Introduction to C++ Programming

Advanced/Lab Courses:

- CD343AI – Design and Analysis of Algorithms

Responsibilities

- **Academic:** Exam Coordinator
- **Administrative:** Academic Monitoring Committee,