



# Dr Jayasri B S

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*Experienced academic leader with 24+ years in teaching, research, and administration in Computer Science and Engineering. Possesses a Ph.D. in Wireless Sensor Networks, an extensive publication record, and a proven track record of mentoring and guiding students to academic success. Seeking to leverage my expertise in curriculum development, research, NBA and academic leadership to enhance the quality of education and drive academic excellence.*

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## EXPERIENCE

### **Professor, Department of Computer Science & Engineering**

The National Institute of Engineering (NIE), Mysore

February 2020 – Present

- Conducted lectures and supervised practical sessions for undergraduate and postgraduate students across various subjects including Wireless Sensor Networks, Operating System, Computer Networks and algorithms.
- Supervised four Ph.D. students, guiding them through research in areas such as AI for healthcare, COVID-19 detection using deep learning, and machine learning applications in ERP.
- Published over 30 research papers in high-impact journals and conferences, including IEEE and Springer.
- Organized and led Faculty Development Programs (FDPs) and workshops on topics like cloud computing, AI, cybersecurity, and blockchain.
- Served as a mentor for research projects and contributed to curriculum development, focusing on modernizing the syllabus to meet industry standards.

### **Dean - External Affairs and Branding (EAB)**

NIE, Mysore

March 2020 – January 2021

- Led the External Affairs and Branding initiatives, enhancing the institute's visibility and reputation through strategic partnerships, collaborations, and outreach programs.
- Spearheaded efforts to establish industry connections and alumni relations, boosting placement opportunities and increasing corporate engagement with the institution.

### **Head of Department (In-Charge)**

NIEIT, Mysore

January 2016 – June 2017

- Managed faculty and student activities within the department, including resource allocation and scheduling.
- Spearheaded departmental initiatives to boost student placement rates and enhance academic output.

- Facilitated industry partnerships for research collaborations and internships.

### **Other Academic Positions Held**

- Associate Professor (CS&E), NIE, *June 2017 – February 2020*
- Assistant Professor (PG Studies/MCA), NIE, *August 2008 – July 2011*
- Lecturer (IS&E), NIE, *September 2005 – July 2008*
- Guest Faculty (CS&E), NIE, *April 2001 – June 2003*

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### **EDUCATION**

- **Ph.D. in Computer Science and Engineering, 2019**  
Visvesvaraya Technological University, Belgaum  
*Specialization: Wireless Sensor Networks*
- **M.Tech. in Computer Networking, 2007**  
Visvesvaraya Technological University, Belgaum  
*First Class with Distinction*
- **B.E. in Computer Science and Engineering, 1997**  
University of Mysore  
*First Class*

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### **KEY ACADEMIC ROLES AND CONTRIBUTIONS**

- **NPTEL/SWAYAM Teaching Assistant:** Facilitated courses on Social Networks and Deep Learning by designing weekly tests, final exams, and assignments to assess and enhance students' understanding. Actively addressed and resolved students' queries, providing timely support to ensure a thorough grasp of the course content.
- **Academic Leadership:** Played a pivotal role as NBA program coordinator for the department by driving quality assurance measures in course delivery and evaluation.
- **Curriculum Development:** Led initiatives to integrate emerging technologies into the curriculum, such as cloud computing, optimization technique, Social networking, Operating System, and Analysis and Design of algorithms.
- **Mentorship:** Mentored junior faculty and students, helping them achieve academic and research excellence.

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### **RESEARCH AND SCHOLARLY WORK**

- **Ph.D. Guidance:**
  - Successfully guided 1 Ph.D. candidate in Wireless Sensor Networks (2023).
  - Supervising 4 ongoing Ph.D. projects in areas like AI for healthcare, student behavioral modeling, ERP systems, and cardiovascular disease classification using machine learning.
- **Publications:**

- **International Journals:** Authored over 30+ papers in reputed journals such as *IEEE Access*, *Springer*, and *Elsevier*.
- **Books and Book Chapters:** Contributed chapters on topics like data fusion in sensor networks and AI applications in *Springer Lecture Notes*.
- **Conferences:** Presented papers at prominent conferences, including *IEEE International Conference on Computing and Communications Technologies* and *Asian Conference on Innovation in Technology*.

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## PUBLICATIONS

- **Google scholar profile:** <https://scholar.google.co.in/citations?user=rS4E99wAAAAJ&hl=en>
- **ORCiD profile:**  
<https://www.scopus.com/redirect.uri?url=https://orcid.org/0000-0003-3766-5930&authorId=57194091014&origin=AuthorProfile&orcid=0000-0003-3766-5930&category=orcidLink>
- **Scopus ID:**  
<http://www.scopus.com/inward/authorDetails.url?authorID=57194091014&partnerID=MN8TOARS>

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## CONFERENCES AND WORKSHOPS ORGANIZED

- **Faculty Development Programs:**
  - Led FDPS on *Cloud Computing*, *Machine Learning*, *Cybersecurity*, and *Blockchain* with participation from over 200 faculty members.
  - Organized the *AI Summit 2024* conference
- **Workshops and Student Development Programs (SDPs):**
  - Organized over 30 workshops, including a *Student Induction Program* for 600+ students and SDPs on *DevOps*, *Mobile Application Development*, and *React JS*.
  - Conducted a *National Seminar on Cyber Security and IoT* with 200+ attendees.
- **Conference Participation:**
  - Presented papers at international conferences on cutting-edge topics like *Blockchain-Based Public Procurement Systems* and *AI for COVID-19 Safety Protocol Monitoring*.

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## HONORS, AWARDS AND DISTINCTIONS

- **Expert**, SMART INDIA HACKATHON, Ministry of Education, 2022.
- **Jury Member**, Mysore Open Hack 2.0, LTTS, Mysore, 2024.
- **Judge**, Science Expo SRUJANA, School of Lifescience, JSS Academy, 2023.
- **Teaching Assistant**, NPTEL courses on Social Networks and Deep Learning (2021).
- **LIC Committee Member**, Visvesvaraya Technological University (2022-2023).
- **BOS, BOE, DAB Member**, for several VTU affiliated collages and universities.
- **Keynote Speaker, Session Chair** for several conferences.

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## PATENTS

- *A Compendium Machine Learning Probabilistic Perspective for Predicting Coffee Crop Yield*, Patent No. 202341063599A, Awarded October 2023.
- *AI-Based Device for COVID Detection*, Patent Application No. 43408-001, September 2024.

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## PROFESSIONAL MEMBERSHIP

- Member, **IEEE**
- Member, **Computer Society of India (CSI)**
- **Editorial and Review Board Member** for various international journals and conferences.

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## PROFESSIONAL DEVELOPMENT AND TRAINING

- **FDPs Attended:** Completed over 50 FDPs and training programs on topics such as *Computational Linear Algebra*, *Machine Learning with Python*, and *Cybersecurity and Blockchain* at premier institutions like IIT Kharagpur and AICTE ATAL.
- **Refresher Courses and Orientation Programs:** Participated in workshops on *Network Technologies*, *Mobile Computing*, *Cloud Computing*, and *E-Learning Resource Creation*.

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