

Dr. Naveen Kumar K R

Associate Professor
AIML Department, BIET.

Address:

Department of Artificial Intelligence & Machine Learning,
Bapuji Institute of Engineering & Technology,
Shamanur Road, Davangere-577004.

Email: naveenkr@bietdvg.edu

Blog: <https://nvnkr.blogspot.com/>

IRINS: <https://bietdvg.irins.org/profile/222117>

Google Scholar : scholar.google.com

Orcid Id: [0000-0001-6649-4371](https://orcid.org/0000-0001-6649-4371)



Career Objective

To contribute my knowledge and skills to advance research and development in the field of computer science and engineering, while continuing to take on challenges that utilize my expertise in data analytics, machine learning and programming.

Work Experience

- **Associate Professor** @ Bapuji Institute of Engineering and Technology, Davangere
Aug 2022 - Present
 - **Assistant Professor** @ Bapuji Institute of Engineering and Technology, Davangere
Jan 2014 - Jul 2022
 - **Software Developer** @ CloudByte Technologies India Pvt. Ltd., Bangalore
Sep 2011 - Oct 2012
-

Academic Qualifications

- **Ph.D. in Computer Science & Engineering**, 2021
Visvesvaraya Technological University
Thesis: "Optimized Data Mining Techniques for Zone Delineation and Yield Prediction for Precision Agriculture"
 - **M.Tech. in Computer Science & Engineering**, 2011
B.I.E.T, Davangere
Project: "Web Traffic Reduction for Infrequent Update Application using Green Ajax"
 - **B.E. in Computer Science & Engineering**, 2008
S.T.J. Institute of Technology, Ranebennur
Project: "Academia - A Complete Portal Solution for College"
-

Professional Memberships

- The Computer Science Teachers Association (CSTA) - 198357999466

- International Association of Engineers - 288482
- The Institution of Engineers (India) - AM1916155
- The Indian Society for Technical Education - LM125349

Certification

- **Python for Beginners**, openSAP, Jun 2022
- **Programming, Data Structures and Algorithms Using Python**, NPTEL, Mar 2022

Core Subjects Taught

SN	SUBJECTS	TIMES
1	Data Structures and Applications	12
2	Design and Analysis of Algorithms	11
3	Programming Languages	3
4	Machine Learning	3
5	Python Application Programming	3
6	Big Data Analytics	1
7	Advance Java and J2EE	1
8	Programming in Java	1

Patents

- Artificial Intelligence based Antenna for 5G Technology

Chapter Reviewer

- Served as **REVIEWER** for the Second IEEE International Conference on Advances in Information Technology (ICAIT-24) is being organized at Adichunchanagiri Institute of Technology, Chikkamagaluru, Karnataka, India, during 24th- 27th July 2024 in association with IEEE Bangalore Section.
- Served as **REVIEWER** for the AICTE sponsored Fourth Annual International Conference held during 16-17 March, 2023 organized by Dept. of CSE, Vidyavardhaka College of Engg, Mysuru.
- Chapter '**Leveraging AI Technologies for Preventing and Detecting Sudden Cardiac Arrest and Death: Predicting and Preventing the Heart Problems**', IGI Global, Apr , 2022.

Roles and Responsibilities

- Institute website coordinator.
- Involved in the design and development of Institute Website: <http://www.bietdvg.edu>.
- Institute NAAC coordinator.
- Department NBA Criterion-7 coordinator.
- Department **Coding Club (Binary Blooms)** Coordinator.
- BoS member
- **'DATA STRUCTURES AND OBJECT ORIENTED CONCEPTS-Revamp your coding skills to transform into coding superstars'** event coordinator conducted on Mar 9, 2023 to Mar 11, 2023.
- **'Microsoft Power BI Data Analyst Associate'** event coordinator conducted on Oct 10, 2022 to Oct 14, 2022 .
- **'Crack the Code to Conquer the Interview'** event coordinator conducted on Jul 31, 2021 and Aug 1, 2021 .
- In view of the Selection Committee meeting for Financial Assistance for innovative projects of Final year students for the year 2021-22 & 2020-21, I was deputed to host and record the proceedings of the meeting.
- **'Blog-a-Thon'** event coordinator conducted on Mar 25, 2021 .

Expert Lectures Delivered/External Examiner

- Delivered two days talk on **'From Raw Data to Actionable Insights: Master Data Analysis and Modeling with R'** Faculty Development Program on **"Google Analytics and Tools for Data Visualisation"** from Jul 24, 2023 2:00 PM to Jul 31, 2023 5:00 PM, held at CSE, BIET.
- Delivered a talk on **'DATA STRUCTURES AND OBJECT ORIENTED CONCEPTS-Revamp your coding skills to transform into coding superstars'** for 3rd Semester students on Mar 9, 2023 to Mar 11, 2023.
- Delivered a talk on **"Crack the code to Conquer the Interview - 2"** for 6th semester CSE, ISE and ECE students on Jun 12, 2022 held at CSE, BIET.
- Appointed as **"External Examiner for Practical Examination"** for the course 'Programming Lab-1: Python for Data Science', Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur on Apr 22, 2022 .
- Delivered two days talk on **"Crack the code to Conquer the Interview"** for 6th semester CSE and ECE students on Jul 31, 2021 and Aug 1, 2021 , held at CSE, BIET.
- In the view of NAAC document preparation, handled a session on **"File Management using Google Drive"** for Institute NAAC coordinators of various departments on Jul 12, 2021 , held at CSE, BIET.
- Delivered a seminar on **"Creational Design Pattern"** under Faculty Lecture Series: Conclave 1.0 for CSE faculties held at CSE, BIET on Apr 27, 2021 .
- As a part of innovative teaching methods with regard to NAAC/NBA, handled a session on **"Blog-a-Thon"** creating blogs for all faculty members of BIET held on Mar 25, 2021 .
- Delivered a seminar on Object Oriented Programming with C++ for 6th semester students on Sep 28, 2016 , held at

Bapuji B-schools.

- Delivered a talk on "**Choose the right projects**" for final year BCA students held at Bapuji B-schools on Aug 11, 2015 .
 - Delivered a session for Bapuji Polytechnic faculty members on "**Web Designing**" on Jul 9, 2014 .
-

Awards & Achievements

- **Published papers/Book Chapters on:**

- Paper title "**Advances and Challenges in Spatial Multivariate Outlier Detection: A Comprehensive Analysis of Existing Methods**" is published in 'Technische Sicherheit', Vol. 23, Issue 12, Pp. 128-142, 2023.
Co-authors: Arun Kumar Hiremath, Srinivasa B R, Nirmala C R
- Paper title "**The Game-changing Secret Behind Metaverse Technology's Massive Impact On Business And The Economy**" is published in 'international Journal Of Engineering Research & Technology (IJERT)', Vol. 11, Issue 5, Pp. 259-266, ISSN: 2278-0181, 2023.
Co-authors: Priya V, G Sunkad Rachana, Nirmala C R.
- Paper title "**Optimization of Crop Recommendations Using Novel Machine Learning Techniques**" is published in 'MDPI', Sustainability, Vol. 15, No. 11 pp. 8836, 2023, DOI: <https://doi.org/10.3390/su15118836>.
Co-authors: Husam Lahza, Sreenivasa B. R., Tawfeeq Shawly, Ahmed A. Alsheikhy, Arun Kumar Hiremath, Hassan Fareed M. Lahza
- Paper title "**A Novel Cluster Analysis-Based Crop Dataset Recommendation Method in Precision Farming**" is published in 'tech Science Press', Computer Systems Science & Engineering, Vol.46, No.3, pp. 3239-3260, 2023, DOI: <https://doi.org/10.32604/csse.2023.036629>.
Co-authors: Husam Lahza, B. R. Sreenivasa, Tawfeeq Shawly, Ahmed A. Alsheikhy, H. Arunkumar and C. R. Nirmala.
- Paper titled "**IOT Based Road Safety System**" is published in 'International Journal of Innovative Research in Computer and Communication Engineering' volume 10, Issue 6, pp. 5748 - 5754, June 2022.
- Paper titled "**Monitoring activity and detecting unexpected events in surveillance footage using Deep CNN**", is published in "World Academy of Research in Science and Engineering", Co-authors: Gururaj, C R Nirmala, **K R Naveen Kumar**, ISBN:2455-6211, Volume: 11 Issue: 5, Pp. 12 - 18, 2022.
- Paper titled "**Location Based Dexterous Study Analysis For Determination Of Yield Trends In Precision Agriculture**", is published in "International Journal of All Research Education & Scientific Methods", Co-authors: Dr. Nirmala C R, Dr. Sreenivasa B R, ISBN:2455-6211, Volume: 9 Issue: 2, 189 -197, 2021.
- Book Chapter titled: "**A Secure Blockchain-Powered Land Record Modernization System for Documenting Land User's Rights: Land Transparency Initiative**", Authors: Arun Kumar G Hiremath, GM Roopa, KR Naveen Kumar, Editors: Pradeep Nijalingappa and Manikrao Ghonge, ISBN-13: 9781799884934, Date: November, 2021.
- Book Chapter titled: "**Modern Techniques for Agricultural Disease Management and Crop Yield Prediction**", Authors: Naveen Kumar K R, Roopa G M, Arun kumar G Hiremath and Nirmala C R, Editors: N. Pradeep, Sandeep Kautish, C.R. Nirmala, Vishal Goyal and Sonia Abdellatif, ISBN-13:: 978-1522596332, Date:July 2019.

- Paper titled: "**A Novel Approach for Management Zone Delineation by Classifying Spatial Multivariate Data and Analyzing Maps of Crop Yield**", Authors: Naveen Kumar K R and Nirmala C R, International Journal on Future Revolution in Computer Science & Communication Engineering, ISSN: 2454-4248, Volume: 4 Issue: 959-66, Date: September 2018.
- Paper titled: "**Food Management Application Using Ibm Bluemix Services**", Authors: Naveen Kumar K R and Nirmala C R, International Journal of Engineering and Manufacturing Science, ISSN 2249-3115 Volume 8, pp. 55-63, Date: 2018.
- Paper titled: "**Twitter data analysis for unemployment crisis**", Authors: Naveen Kumar K R, Roopa G M and Nirmala C R, International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT), ISSN 2249-3115 Volume 8, pp. 55-63, DOI: 10.1109/ICATCCT.2015.7456920, Publisher: IEEE, Date: 29-31 Oct. 2015.
- **Presented a paper on:**
 - Presented paper titled: "**Food Management Application Using Ibm Bluemix Services**", Authors: Naveen Kumar K R and Nirmala C R, International Journal of Engineering and Manufacturing Science, ISSN 2249-3115 Volume 8, pp. 55-63, Date: 2018.
 - Presented paper titled: "**Twitter data analysis for unemployment crisis**", Authors: Naveen Kumar K R, Roopa G M and Nirmala C R, International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT), ISSN 2249-3115 Volume 8, pp. 55-63, DOI: 10.1109/ICATCCT.2015.7456920, Publisher: IEEE, Date: 29-31 Oct. 2015.
 - '**Flex Frame Work & AJAX Tools**' and bagged 2nd Prize in the State Level Technical Paper Presentation Contest organized by ISTE Students Chapter 'AVISHKAR-2008 B.I.E.T, Davanagere on 8th March 2008'
 - '**Fluid Interface Using Flex**' and felicitated with Certificate in the State Level Technical Paper Presentation Contest organized by ISTE Students Chapter during 'Discover - 2008 G.M.I.T.'
 - Secured 77% marks - a test conducted by the council for UN Information, a wing of USO, on 31 August 2001.
- Certificate of Appreciation for Mentoring a 24-hour Hackathon called "**HACKTECHFUSION 2.0**", Project Title: "**Phishing Site Detection using Machine Learning**", held at ISE, BIET.
- Served as a mentor for the project titled "**Phishing Site Detection using Machine Learning**," selected for **Smart India Hackathon 2024**.
- Certificate of appreciation for delivering a two-day talk on '**From Raw Data to Actionable Insights: Master Data Analysis and Modeling with R**' at the Faculty Development Program on "Google Analytics and Tools for Data Visualisation" from July 24, 2023 2:00 PM to July 31, 2023 5:00 PM, held at CSE, BIET.
- Certification of completion '**Python for Beginners**' with a score of '**99.9%**', organized by openSAP held from **Apr 5, 2022** to **Jun 1, 2022**.
- Certification of completion '**Programming, Data Structures And Algorithms Using Python**' with a score of '**77%**', organized by NPTEL, AICTE held on Jan - Mar, 2022.
- DAA Lab Manual: Website Statistic Report
 - August Top Search performance for bietdvg.edu of 2021 - 1.62k visits

- o July Search performance for bietdvg.edu of 2021 - 1.52 visits.
 - Participated in non stop 36 hours Coding Competition, contributing as Mentor in
 - o “**Smart India Hackathon 2019**”, under the Ministry of Rashtriya Chemicals and Fertilizers on Mar 2, 2019 and Mar 3, 2019 .
 - o “**Smart India Hackathon 2017**”, under the Ministry of Commerce and Industry on Apr 1, 2017 and Apr 2, 2017
 - Certification of appreciation on “**Building Chatbots Using Ibm Watson**” held on Oct 11, 2018 to Oct 13, 2018 .
 - Certification of appreciation for adopting Impartus Lecture Capture, Aug 11, 2018 .
 - Certificate of Appreciation on 24hrs non-stop “**Learnathon - Student Championship 2018**”, held on Feb 2, 2018 and Feb 3, 2018 .
 - Bagged the Certification of completion '**Java Fundamentals**' organized by Oracle Academy held on, Jan 8, 2018 to Jan 12, 2018 .
 - Grabbed 'A' in **Python Programming & Database Concepts** conducted by Infosys Limited on Dec 26, 2016 to Dec 30, 2016 and Jun 20, 2016 to Jun 25, 2016 .
 - Bagged the overall grade: **Very good** from Student's Feedback result for subject: **Programming Languages**.
 - Designed manual - “**A Laboratory Course in Data Structures & Algorithms**” for CS&E Dept.
 - Grabbed grade '**A**' in **Introduction to the Design of Algorithms** conducted by Indian Institute of Technology Kharagpur on May 30, 2015 .
 - Designed manual - “**A Laboratory Course in Data Structures & Algorithms**” for CS&E Dept.
-

Seminars/Workshops Attended

- **Python for Beginners**
 - o Date: Apr 5, 2022 to Jun 1, 2022
 - o Organizer: openSAP
 - o Place: Webinar
 - o Days: Eight weeks
 - **Programming, Data Structures And Algorithms Using Python**
 - o Date: Jan 24, 2022 to Mar 18, 2022
 - o Organizer: NPTEL, AICTE approved FDP course
 - o Place: Webinar
 - o Days: Eight weeks
-

- **AI for Future Workforce Session**

- o Date: Jul 8, 2024 to Jul 16, 2024
 - o Organizer: Intel - HP
 - o Place: Webinar
 - o Days: Seven
-

- **Blockchain Technologies & Networks**

- o Date: Mar 7, 2022 to Mar 12, 2022
- o Organizer: J.C.Bose University of Science and technology, Faridabad, in association with AICTE
- o Place: Webinar
- o Days: Six

- **Google Android Kotlin Fundamentals**

- o Date: Mar 8, 2021 to Mar 13, 2021
- o Organizer: Google
- o Place: Webinar
- o Days: Six

- **Data Mining & Analytics**

- o Date: Feb 17, 2021 to Feb 23, 2021
- o Organizer: School of Computer Science and Engineering, Reva University, Bengaluru.
- o Place: Webinar
- o Days: Six

- **Modern Trends in AI and ML**

- o Date: Jan 11, 2021 to Jan 16, 2021
- o Organizer: AICTE Sponsored one week Faculty Development Programme Organized By Department of Computer Science and Engineering ,Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur.
- o Place: Webinar
- o Days: Six

- **Certificate course in Digital Teaching Techniques**

- o Date: 29 - 06 - 2020 to 04 - 07 - 2020
 - o Organizer: ICT Academy
 - o Place: Webinar
 - o Days: Six
-

- **Microsoft Power BI Data Analyst Associate**

- o Date: Oct 10, 2022 to Oct 14, 2022
- o Organizer: ICT Academy
- o Place: CSE, BIET
- o Days: Five

- **Inculcating Universal Human Values in Technical Education**

- o Date: May 9, 2022 to May 13, 2022
 - o Organizer: AICTE
 - o Place: Online
 - o Days: Five
 - **Data Science**
 - o Date: Feb 21, 2022 to Feb 25, 2022
 - o Organizer: J C Bose University of Science & Technology, YMCA, Faridabad, in association with ATAL Academy
 - o Place: Webinar
 - o Days: Five
 - **RPADD Virtual Educator Readiness Session**
 - o Date: Aug 23, 2021 to Aug 27, 2021
 - o Organizer: Ui Path
 - o Place: Webinar
 - o Days: Five
 - **Semantic Web**
 - o Date: Feb 22, 2021 to Feb 26, 2021
 - o Organizer: Department of Information Science and Engineering RV Institute of Technology and Management, Bengaluru.
 - o Place: Webinar
 - o Days: Five
 - **Capacity Building**
 - o Date: Feb 15, 2021 to Feb 19, 2021
 - o Organizer: AICTE Training And Learning (ATAL) Academy
 - o Place: Webinar
 - o Days: Five
 - **Potential Research Avenues in Computer Science and Biology**
 - o Date: Jan 19, 2021 to Jan 23, 2021
 - o Organizer: AICTE (ATAL) FDP Programme
 - o Place: Webinar
 - o Days: Five
 - **Data Science and Big Data Analytics**
 - o Date: Jan 21, 2020 to Jan 25, 2020
 - o Organizer: ICT Academy
 - o College: ICT Academy and BIET
 - o Place: BIET, Davanagere
 - o Days: Five
-

- **Interface of IPR in academics and Entrepreneurship**
 - Date: Mar 2, 2023 to Mar 3, 2023
 - Organizer: Karnataka State Council for Science and Technology
 - Place: BIET
 - Days: Two
 - **Intellectual Property Rights (IPR) for computer related inventions**
 - Date: Aug 20, 2021 and Aug 21, 2021
 - Organizer: R. N. G. Patel Institute of Technology
 - Place: Webinar
 - Days: Two
 - **OBE Lecture Series - 1**
 - Date: 06 - 06 - 2020 & 07 - 06 - 2020
 - Organizer: WINSUN GLOBAL TECH
 - Place: Webinar
 - Days: Two
-
- **Best Practices for New Education Policy (NEP) - 2020 in Higher Education Institutions**
 - Date: Feb 21, 2023
 - Organizer: National Assessment and Accreditation Council (NAAC)
 - Place: BIET
 - Days: One
 - **Fine-Tuning of NEP Compliance Syllabus-Disciplines under CSE Board of VTU**
 - Date: Apr 20, 2022
 - Organizer: S J C Institute of Technology, Chickballapur in association with VTU.
 - Place: Webinar
 - Days: One
 - **Open Source Tools for Research and Development**
 - Date: Feb 5, 2022
 - Organizer: Dept. of CSE, SJCIT
 - Place: Webinar
 - Days: One
 - **Awareness Program on Intellectual Property Rights (IPR)**
 - Date: Jan 28, 2022
 - Organizer: NIPAM - New Delhi & BIET - Davanagere.
 - Place: Webinar
 - Days: One
 - **Compliance of Scheme and Syllabus of CSE/ISE: NEP - 2021**

- Date: Jan 28, 2022
- Organizer: CSE, BIET - Davanagere.
- Place: CSE, BIET - Davanagere.
- Days: One
- **Why Intellectual Property is Important in Academia?**
 - Date: Aug 23, 2021
 - Organizer: MHRD - Institute Innovation Council - Jain Institute of Technology, Davangere.
 - Place: Webinar
 - Days: One
- **Role of Faculty in Implementation of NEP**
 - Date: Feb 20, 2021
 - Organizer: Bharathiya Shikshan Mandal and NITI Aayog in collaboration with Basaveshwar Engineering College (Autonomous), Bagalkot.
 - Place: Webinar
 - Days: One
- **Cyber Security for Sustainable Development**
 - Date: Feb 14, 2021
 - Organizer: The Institution of Engineers (India)
 - Place: Webinar
 - Days: One
- **National Education Policy 2020: Autonomy, Issues and Challenges**
 - Date: Dec 10, 2020
 - Organizer: Training programme W30 organized by NITTTR Bhopal.
 - Place: Webinar
 - Days: One
- **Intellectual Property Rights**
 - Date: Oct 22, 2020
 - Organizer: KSCST and Indian Institute of Science campus
 - Place: Webinar
 - Days: One
- **IoT in Agriculture: Karnataka Focus**
 - Date: 17 - 08 - 2019
 - College: Dept. of Electrical Communication Engineering, Indian Institute of Science campus
 - Place: Bengaluru
 - Days: One
- **Machine Learning to Deep Learning**
 - Date: 23 - 02 - 2019

- o College: Dept. of Computer Science & Engineering with BCIC, Bapuji Institute of Engineering and Technology
- o Place: Davanagere
- o Days: One