

Dr. Naveen Kumar K R

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Teaching Experience

- Working as **Associate professor** in Bapuji Institute of Engineering and Technology, Davangere from **Aug 1, 2022** - Till date.
- Working as **Assistant professor** in Bapuji Institute of Engineering and Technology, Davangere from **Jan 16, 2014** - **Jul 31, 2022** .

Industry Experience

- **Software Developer** at CloudByte Technologies India Pvt. Ltd., Bangalore from Sep 7, 2011 - Oct 31, 2012

Academic Qualifications

- Ph.D. (Computer Science & Engineering) from Visvesvaraya Technological University, **Aug 5, 2021** .
 - Research title: "**Optimized Data Mining Techniques for Zone Delineation and Yield Prediction for Precision Agriculture**".
 - Research Supervisor: Dr. Nirmala C R, Prof & Head, Dept of CSE , BIET.
 - Sponsorship: *Vision Group on Science and Technology (VGST)*
 - ResearchCentre @ Bapuji Institute of Engineering & Technology, Davangere.
- M.Tech. (Computer Science & Engineering) from B.I.E.T, Davanagere in 2011.
 - Project title: "**Web Traffic Reduction for Infrequent Update Application using Green Ajax**".
 - Project guide: Prof. S B Mallikarjuna, HOD, Dept of ISE , BIET.
- B.E. (Computer Science & Engineering) from S.T.J. Institute of Technology, Ranebennur in 2008.
 - Project title: "**Academia - A Complete Portal Solution for College**".
 - Project guide: Prof. Parameshwarappa C M, HOD, Dept of CSE , STJIT.
 - Sponsorship: *Karnataka State Council for Science and Technology (KSCST)*

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
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Certification

- 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% - (Elite + Silver)**', organized by NPTEL, AICTE held on Jan - Mar, 2022.
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Roles and Responsibilities

- Institute website coordinator.
- Involved in the design and development of Institute Website: <http://www.bietdvg.edu>.
- NAAC Criterion-2 team member.
- NBA Criterion-3 team member.
- Entrepreneurship Development Cell 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**.
- Involved in the design and development of Bapuji Educational Association (BEA) Website.
- Involved in the design and development of Employer, Alumni and Parents feedback form.
- Maintained Karnataka ISTE website <http://www.istekarnataka.com/>.
- Involved in the design and development of a web portal (college registration) for 14th VTU Youth festival held at BIET, Davanagere.
- Worked as a food committee member for ICATCCT the international conference held at BIET, Davanagere in 2015.
- Conducted IBM-BLUEMIX sessions for students and helped them to deploy their app on cloud.
- Actively involved in all activities conducted by the department. Learnathon: 24 hours non-stop coding contest.
- Actively involved in all activities conducted by the department. Hackathon: 'Building Chatbots using IBM Watson' 24 hours non-stop coding contest.

Core Subjects Taught

SN	SUBJECTS	TIMES
1	Data Structures and Applications	10
2	Design and Analysis of Algorithms	9
3	Programming Languages	3
4	Machine Learning	3
5	Python Application Programming	2
6	Big Data Analytics	1
7	Cloud Computing	1
8	Advance Java and J2EE	1
9	Programming in Java	1

Expert Lectures Delivered/External Examiner

- 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 .
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Awards & Achievements

- **Published papers/Book Chapters on:**
 - 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.
- 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
 - July Search performance for bietdvg.edu of 2021 - 1.52 visits.
- Participated in non stop 36 hours Coding Competition, contributing as Mentor in
 - "**Smart India Hackathon 2019**", under the Ministry of Rashtriya Chemicals and Fertilizers on **Mar 2, 2019** and **Mar 3, 2019**.
 - "**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.
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Patents

- Artificial Intelligence based Antenna for 5G Technology
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Chapter Reviewer

- Chapter ‘**Leveraging AI Technologies for Preventing and Detecting Sudden Cardiac Arrest and Death: Predicting and Preventing the Heart Problems**’, IGI Global, Apr , 2022.
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Seminars/Workshops Attended

- **Python for Beginners**
 - Date: Apr 5, 2022 to Jun 1, 2022
 - Organizer: openSAP
 - Place: Webinar
 - Days: Eight weeks
 - **Programming, Data Structures And Algorithms Using Python**
 - Date: Jan 24, 2022 to Mar 18, 2022
 - Organizer: NPTEL, AICTE approved FDP course
 - Place: Webinar
 - Days: Eight weeks
 - **Blockchain Technologies & Networks**
 - Date: Mar 7, 2022 to Mar 12, 2022
 - Organizer: J.C.Bose University of Science and technology, Faridabad, in association with AICTE
 - Place: Webinar
 - Days: Six
 - **Google Android Kotlin Fundamentals**
 - Date: Mar 8, 2021 to Mar 13, 2021
 - Organizer: Google
 - Place: Webinar
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- Days: Six
 - **Data Mining & Analytics**
 - Date: Feb 17, 2021 to Feb 23, 2021
 - Organizer: School of Computer Science and Engineering, Reva University, Bengaluru.
 - Place: Webinar
 - Days: Six
 - **Modern Trends in AI and ML**
 - Date: Jan 11, 2021 to Jan 16, 2021
 - 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.
 - Place: Webinar
 - Days: Six
 - **Certificate course in Digital Teaching Techniques**
 - Date: 29 - 06 - 2020 to 04 - 07 - 2020
 - Organizer: ICT Academy
 - Place: Webinar
 - Days: Six
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- **Microsoft Power BI Data Analyst Associate**
 - Date: Oct 10, 2022 to Oct 14, 2022
 - Organizer: ICT Academy
 - Place: CSE, BIET
 - Days: Five
- **Inculcating Universal Human Values in Technical Education**
 - Date: May 9, 2022 to May 13, 2022
 - Organizer: AICTE
 - Place: Online
 - Days: Five
- **Data Science**
 - Date: Feb 21, 2022 to Feb 25, 2022
 - Organizer: J C Bose University of Science & Technology, YMCA, Faridabad, in association with ATAL Academy
 - Place: Webinar
 - Days: Five
- **RPADD Virtual Educator Readiness Session**
 - Date: Aug 23, 2021 to Aug 27, 2021
 - Organizer: Ui Path
 - Place: Webinar

- Days: Five
 - **Semantic Web**
 - Date: Feb 22, 2021 to Feb 26, 2021
 - Organizer: Department of Information Science and Engineering RV Institute of Technology and Management, Bengaluru.
 - Place: Webinar
 - Days: Five
 - **Capacity Building**
 - Date: Feb 15, 2021 to Feb 19, 2021
 - Organizer: AICTE Training And Learning (ATAL) Academy
 - Place: Webinar
 - Days: Five
 - **Potential Research Avenues in Computer Science and Biology**
 - Date: Jan 19, 2021 to Jan 23, 2021
 - Organizer: AICTE (ATAL) FDP Programme
 - Place: Webinar
 - Days: Five
 - **Data Science and Big Data Analytics**
 - Date: Jan 21, 2020 to Jan 25, 2020
 - Organizer: ICT Academy
 - College: ICT Academy and BIET
 - Place: BIET, Davanagere
 - Days: Five
 - **Recent Research Trends In Information Technology - Vol.1**
 - Date: July 13, 2015 to July 17, 2015
 - College: Dept. of Information Technology, Mukesh Patel School of Technology Management and Engineering (Mumbai Campus)
 - Place: Mumbai
 - Days: Five
 - **Introduction to Design of Algorithms**
 - Date: May 25, 2015 to May 30, 2015
 - Organizer: Indian Institute of Technology Kharagpur
 - College: U.B.D.T
 - Place: Davangere
 - Days: Five
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- **Machine Learning**
 - Date: 19 - 07 - 2018 to 21 - 07 - 2018
 - College: Dept. of Computer Science and Engineering & Information Science and Engineering, RNS Institute of Technology
 - Place: Bengaluru
 - Days: Three
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- **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

- **Data Science and Analytics**
 - Date: November 10, 2017 and November 11, 2017
 - College: PES University
 - Place: Bengaluru
 - Days: Two
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- **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

- o Days: One
- **Open Source Tools for Research and Development**
 - o Date: Feb 5, 2022
 - o Organizer: Dept. of CSE, SJCIT
 - o Place: Webinar
 - o Days: One
- **Awareness Program on Intellectual Property Rights (IPR)**
 - o Date: Jan 28, 2022
 - o Organizer: NIPAM - New Delhi & BIET - Davanagere.
 - o Place: Webinar
 - o Days: One
- **Compliance of Scheme and Syllabus of CSE/ISE: NEP - 2021**
 - o Date: Jan 28, 2022
 - o Organizer: CSE, BIET - Davanagere.
 - o Place: CSE, BIET - Davanagere.
 - o Days: One
- **Why Intellectual Property is Important in Academia?**
 - o Date: Aug 23, 2021
 - o Organizer: MHRD - Institute Innovation Council - Jain Institute of Technology, Davangere.
 - o Place: Webinar
 - o Days: One
- **Role of Faculty in Implementation of NEP**
 - o Date: Feb 20, 2021
 - o Organizer: Bharathiya Shikshan Mandal and NITI Aayog in collaboration with Basaveshwar Engineering College (Autonomous), Bagalkot.
 - o Place: Webinar
 - o Days: One
- **Cyber Security for Sustainable Development**
 - o Date: Feb 14, 2021
 - o Organizer: The Institution of Engineers (India)
 - o Place: Webinar
 - o Days: One
- **National Education Policy 2020: Autonomy, Issues and Challenges**
 - o Date: Dec 10, 2020
 - o Organizer: Training programme W30 organized by NITTTR Bhopal.
 - o Place: Webinar
 - o 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
 - College: Dept. of Computer Science & Engineering with BCIC, Bapuji Institute of Engineering and Technology
 - Place: Davanagere
 - Days: One