

Dr. Neelam Naik

Assistant Professor

Dr. Usha Pravin Gandhi College of Arts,
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Educational Qualification

- **Ph.D. - Computer Science**, University of Mumbai (Dept. of Computer Science), Topic – Designing and Developing Efficient Data Mining methods for the analysis of massive data, Completed in March 2019
- **Master of Philosophy (M. Phil-Computer Science)**, Yashwantrao Chavan Maharashtra Open University (YCMOU), Dissertation topic – Knowledge Management in Higher Education Institutes: Data Mining Approach, First Class, July 2011
- **Masters in Computer Applications (MCA)**, Indira Gandhi National Open University (IGNOU), First Class, December 2006
- Bachelor of Information Technology (BIT), Indira Gandhi National Open University (IGNOU). Passed in 2004, First Class, December 2004
- Diploma in Advanced Computing (**C-DAC**), From C-DAC, recognised by the Government of India, and affiliated to Department of Electronics at Silverline Institute of Software Technology, Thane, First Class, 2000
- Licentiate of Electronics Engineering (**L. Eln. E.**), **V. J. T. I.**, Matunga, Mumbai 400 019. Passed in 1998, First Class with Distinction

Professional Experience

Worked as a Software Engineer for **Erada Systems, Mumbai, India.**

Title: **ABAP Performance and tuning**

Software: VC++ (Front End), SAP (Back End)

Work done: The project contains the development of a tool, which is used for optimization of

time required for data transfer. My job was to develop User interface in VC++ for tool. It has four views. The first view contains the tree structure having the node for each table and sub nodes for fields of it in database. Second view shows the queries written in ABAP according to the selected table fields. The third view contains the converted queries for optimization that are in second view. The last view contains the explanation about each change in queries made by tool.

Salient Features:

- Optimization SQL Read Access, i. e. keeps data transfer to a minimum.
- SQL and table buffering and its impact on runtime.
- Processing internal tables

Teaching Experience

- Total **20 years** of teaching experience.
- Currently working as Assistant Professor, Department of Information Technology, SVKM's Usha Pravin Gandhi College of Arts, Science and Commerce, Vile Parle West, Mumbai, Maharashtra since August 2019
- Worked as an Assistant Professor from June 2016 to August 2019 at Dr. B.M.N. College (BCA Dept.), Matunga
- Worked as an Assistant Professor in Computer from August 2010 to May 2016 in Thakur Institute of Management Studies, Career Development & Research, Kandivali, Mumbai for M.C.A.
- Worked as a lecturer in Computer from July 2009 to August 2010 in L. B. Hiray College, Bandra, Mumbai for M.C.A.
- Worked as a lecturer in Computer, from December 2004 to June 2009 in Dr. B. M. N. College, Matunga for B.C.A.

Area of Expertise

Big Data Analytics, Data Science, Artificial Intelligence, Core and Advanced Java, Generative AI, Deep Learning, Web based Technologies, C++, Visual Basic, Oracle, Data Structure, Operation Research, Discrete Mathematics, Software Project Management, Software Engineering, Dot net Technologies, Network Security

Patents

- Received a grant for a design patent titled "Solar Powered Fruit Grader and Quality Analyzer" in October 2025
- Received a grant for a design patent titled "Algorithm Mapper Unit for Massive Data Processing" in June 2026
- Applied for a design patent titled "Fully Automatic Fruit Grader and Quality Analyzer" in June 2025

Research Publications

- The research paper entitled "Integrating Vedic Mathematics with Large Language Model: A Novel Approach to Computational Efficiency and Educational Innovation", has been published in **Data Management, Analytics and Innovation: Proceedings of ICDMAI- 2025, Scopus indexed Springer publication- Lecture Notes in Networks and Systems (LNNS) series (1369) in June 2025.**
- The research paper titled "Rank Prediction for Indian Universities Based on National Institutional Ranking Framework", authored by Dr. Neelam Naik has been published in **Scopus indexed Springer publication- Lecture Notes in Networks and Systems (LNNS) series in June 2024**
- Dr. Neelam Naik published the research paper titled "Managing Veracity Attributes and Quantifying Relationship with Readability of Textual Data", in Data Analytics for Business and Societal Challenges, **Scopus indexed AIS e-Library, Association for Information Systems Journal**, Volume 21, pg: 1278, Impact factor: 5.346, ISSN: 1536-9323, Data Analytics for Business and Societal Challenges, Scopus indexed AIS e-Library, Volume 21, pg: 1278, https://aisel.aisnet.org/icis2023/dab_sc/dab_sc/21/
- Dr. Neelam Naik published research paper titled "Information System Framework for Learners' Dropout Prediction in Online Courses Using Machine Learning Algorithms", in International Australasian Conference on Information Systems 2023 (ACIS-2023), Wellington, New Zealand on 6th December 2023 and it is published in **Scopus-indexed Journal of the Association for Information Systems**, <https://aisel.aisnet.org/cgi/viewcontent.cgi?article=1076&context=acis2023> , ISSN: 1536-9323
- Published research papers titled "Implementation of Techniques to Avoid Cyber Attacks" in **UGC Care-listed International Journal, "The Online Journal of Distance Education and e-Learning"**, Volume 11, Issue 2, April 2023
- Published research papers titled "Stock Price Prediction using Machine Learning Algorithms", "Cyber Security: Threats in Cloud Computing", "Cryptocurrency in India", "Medical Expert System" in **International Journal of Advance and Innovative Research**, Volume 10, Issue 1 (XIII), January-March 2023
- Published research papers titled "Data Analysis for the prediction of Heart Diseases", "Predicting the Number of Hashtags Required to Promote Business using Classification Algorithms", "SAP Profitability and Performance Management (PaPM)", "Data analytics for the improvements in small scale businesses", "Rise and Impact of Digital payments in India during pandemic" in **International Journal of Advance and Innovative Research**, Volume 9, Issue 2 (VI), January-March 2022. One paper received **Best Paper Presentation Award** during **ICETDT-2022**

- Published a research paper titled “Software Cost Estimation Model Based on Machine Learning Techniques”, in **Scopus indexed, UGC Care Group II approved**, International Journal of Huazhong University of Science and Technology, Volume 50, Issue 06, June-2021, ISSN:1671-4512
- Published research papers titled “Fruit Recognition System”, “Twitter Sentimental Analysis on Abrogation of Article 370 With Multinomial Naïve Bayes Theorem”, in **International Journal of Advance and Innovative Research**, Volume 8, Issue 1 (II), January-March 2021
- Published a research paper entitled ‘Risk Level Calculation for IoT System’ in **International Journal of Advanced Research in Science, Communication and Technology (IJAR SCT)**, Volume 3, Issue 2, March 2021, ISSN (Online) 2581-9429, pages 103-108, DOI: 10.48175/IJAR SCT-874
- Published research papers titled “Security Challenges and Risk Estimation for IoT based Applications”, “A Benchmark Study of Cashless Digital Applications: Paytm Vs Phonepe”, “Sentiment Analysis on Abrogation of Article 370”, “Fake News Detection, Technology: Blockchain” in **International Journal of Advance and Innovative Research**, Volume 7, Issue 1 (XIV), January-March 2020
- Published research paper in **Elsevier Journal – Procedia, Computer Science**, “Comparative Study of Binary Classification Methods to Analyze a Massive Dataset on Virtual Machine”, Neelam Naik, Dr. Seema Purohit, Science Direct, KES2017, **Marseille, France**
- Published research paper in International Journal, “Prediction of Final Result, Placement of students using Classification Algorithms”, Neelam Naik, Dr. Seema Purohit, **International Journal of Computer Applications IJCA** (Vol. 56, No.12)
- Published research paper in **IEEE Xplore Journal**, “District-wise Educational Development Index using Principal Component Analysis Technique”, Neelam Naik, Dr. Seema Purohit, INDIACOM- 2017; IEEE Conference ID: 40353, New Delhi
- Published research paper in **IEEE Xplore Journal**, “Massive data analytics for Indian education system in distributed environment”, Neelam Naik, Dr. Seema Purohit, ICCMIT – 2017, Warsaw, Poland

Book Publication

Published book for MCA second year students, “**Software Project Management**”, Vipul Prakashan, Mumbai.

Published book for MScIT/MScAIDS/MScAIML students on “**Big Data Analytics**”, Tech Knowledge Publication, Mumbai

Book Chapter Publication

- Published a **Research Book Chapter** entitled “Analysis of Interactive Media Usage for Improving the Outcome of the Agricultural Sector in India” in the **Scopus-indexed international book titled "Interactive Media with Next-Gen Technologies and Their Usability Evaluation"**, 1st Edition, **CRC Press, Taylor and Francis Group**, ISBN-9781032664828, published on 21st December 2024.
- Published a **Research Book Chapter** entitled “Performance Measurement of Natural Dialog System by Analyzing the Conversation” that is published in the **Scopus-indexed international book “Handbook of Research on Designing User Interfaces with a Data Science Approach”**, ISBN13: 9781799891215 | ISBN10: 1799891216 | EISBN13: 9781799891239, **IGI global international publisher** on 15th March 2022.
- published a Book Chapter titled “A New Horizon for Metadata: Blockchain-Driven Data Management Solutions” that is published in the Scopus-indexed international book "Distributed Ledger Technology in Communication, Integration of IoT, Blockchain and Metadata", Signals and Communication Technology, **Springer Nature Publication** in January 2026. ISSN 1860-4862, ISSN 1860-4870 (electronic), Signals and Communication Technology, ISBN 978-3-032-07681-6 ISBN 978-3-032-07682-3 (eBook), <https://doi.org/10.1007/978-3-032-07682-3>

Conferences Publications and Presentations

- Published and presented around 30 research papers in proceedings of International Journals and Conferences covering topics like **Big Data, Knowledge Management, Internet of Things** and many more. Few of them are as follows.
- Presented a research paper entitled "Integrating Vedic Mathematics with Large Language Model: A Novel Approach to Computational Efficiency and Educational Innovation", in the International Conference on Data Management, Analytics and Innovation organized by Society for Data Science in publication association with **Springer Publication** at St. Xavier's College, Kolkata, India from 17th to 19th January, 2025.
- The research paper titled “Rank Prediction for Indian Universities Based on National Institutional Ranking Framework”, authored by Dr. Neelam Naik has been accepted for International Conference on Data Management, Analytics and Innovation 2023 (ICDMAI-2023) that will be held in VIT Vellore, India on 19- 21 January 2024 and considered for Scopus indexed **Springer publication- Lecture Notes in Networks and Systems (LNNS) series**.
- The research paper entitled “Managing Veracity Attributes and Quantifying Relationship with Readability of Textual Data”, authored by Dr. Neelam Naik has been accepted for International Conference on Information Systems (ICIS) 2023 that was held in Hyderabad, India on December 10-13, 2023. It is published in **Scopus-indexed Journal** of the **Association for Information Systems**.

- Dr. Neelam Naik presented virtually the research paper titled “Information System Framework for Learners’ Dropout Prediction in Online Courses Using Machine Learning Algorithms”, in International Australasian Conference on Information Systems 2023 (ACIS-2023), Wellington, New Zealand on 6th December 2023 and it is published in Scopus-indexed Journal of the Association for Information Systems.
- Presented a research paper entitled “Implementation of Blockchain in Diamond Industry and its Level of Adoption in India”, in the **Business Analytics Conference, 2023 organized by K J Somaiya Institute of Management**, Vidyavihar, Mumbai on 23rd March 2023
- Presented research paper titled “Security Challenges and Risk Estimation for IoT based Applications” in one day National Conference on “**Emerging Trends in Digital Technologies – 2020**” jointly organized by SVKM’s Usha Pravin Gandhi College of Arts, Science and Commerce in association with Government institute of Forensic Science, Mumbai on 27th February 2020
- Neelam Naik, Dr. Seema Purohit, Comparative study of Binary Classification methods to analyze a massive dataset on virtual machine, International Conference on Knowledge Based and Intelligent Information and Engineering Systems, **KES2017, 6-8 September 2017, Marseille, France**, Sept 2017
- Neelam Naik, Dr. Seema Purohit presented ‘Massive data analytics for Indian education system in distributed environment’ at International Conference (IEEE Conference) on Communication Management and Information Technology, **Warsaw University, Poland**, April 3-5, 2017
- Neelam Naik published a research paper entitled ‘District-wise Educational Development Index using Principal Component Analysis Technique’ Proceedings of the 11th INDIACom-2017, ISSN:0973-7529, IEEE Conference ID: 40353, 4th International Conference on “Computing for Sustainable Global Development”, Bharati Vidyapeeth’s Institute of Computer Applications and Management (BVICAM), New Delhi (INDIA), ISBN 978-93-80544-24-3, March 2017
- Neelam Naik, Dr. Seema Purohit, presented ‘Rule based Systems to judge child’s basic mathematical ability’ in National Conference CETMRAM – 2016, Kirti M. Doongursee College of Arts, Science & Commerce, ISBN:978-81-930573-1-5, Dec 2016
- Neelam Naik, Dr. Seema Purohit presented ‘Open-Source Technology Implementations for Data Mining of Big Data’ in International conference & workshop on electronics and telecommunication engineering, TCET, Mumbai. Proceedings of ICWAC-2014, (MULTICON-W-2014) ISBN – 978-0-9884925-4-7, Feb 2014

Conferences Convenorship

- **Convener** of International Conference on Emerging Trends in Digital Technologies that is ICETDT – 2024.

- **Co-convener** of International Conference on Emerging Trends in Digital Technologies that is **ICETDT – 2023**.
- The main organizing committee member of **International and National Level Conference Emerging Trends in Digital Technologies** that is **ICETDT – 2022, ICETDT – 2021, ETDT – 2020** in **3 years**.

Responsibilities were: Developing the conference theme and designing the conference content for the brochure/webpage, Brochure and poster Design, Conference Webpage Design, Publicity of the conference, Reviewing the research papers received for the content and plagiarism, Correspondence with the authors of research papers, Preparation of Conference proceedings, Correspondence for the Publication of the Conference proceedings, Conduction of paper presentation session on the day of the conference

Conferences Reviewer, Session Chair and Resource Person

- Invited as Resource Person to conduct two sessions on **“Content Generation”** and **“Interactive Tool Generation”** in **Artificial Intelligence Workshop** for Primary and Secondary Educators under Faculty Development Program organized by **Mahatma Gandhi Institute of Management, Moca, Mauritius** from 19th -21st June 2025.
- Invited as Resource Person to conduct two sessions on **“Research Tools”** and **“Interactive Tool Generation”** in 7-days **Faculty Development Program (FDP)** on “AI for Effective Teaching and Learning” organized by Late Bhausaheb Hiray S. S. Trust’s Institute of Computer Application, Bandra East, Mumbai on 2nd and 4th June 2025.
- Invited as a member of the **Gender Audit Committee** of Valia C. Laljibhai College of Commerce and Valia L. Chhaganlal College of Arts, Andheri West, Mumbai, scheduled on 26th March 2025.
- Invited as **Session Judge** to evaluate the oral paper presentation at the **International Conference on Computing STEM and Applied Sciences (ICCSAS-2025)** organized by B.K. Birla College of Arts, Science, and Commerce, Kalyan on 21st March 2025
- Invited as **resource person for Faculty Development Program** on Teaching, Learning through AI, organized by the SIES School of Learning and Leadership Development (SIESSLDD), Sion to conduct a hands on workshop on “AI Tools in Research” on 20th February 2025.
- Worked as a Session Chair in online mode at the Australasian Conference on Information Systems 2024 (ACIS 2024), Digital Futures for a Sustainable Society organized by **Association for Information Systems (AIS)** and hosted by the University of Canberra, Canberra, Australia, for the track- “Digital Ecosystems and Technologies Evolving in the Fast-Changing Ecological World”, on 6th December 2024.
- Has been appointed as **Technical Track Chair and Reviewer** titled **“Digital Ecosystems and Technologies in the Fast-changing Ecological World”** in Australasian Conference on Information Systems-2023 (ACIS 2023) organized by Association for Information Systems

(AIS), hosted by the Victoria University of Wellington, New Zealand from the 5th to 8th of December 2023. (20.05.2023)

- Worked as a **Session Chair at the International Conference on Recent Advances in Information Technology (ICRAIT-2023)** organized by MET Institute of Computer Science, Bandra West, Mumbai on 23-24th June 2023, also received.
- Has been appreciated as **Exceptional Reviewer** in the International Conference on Recent Advances in Information Technology (ICRAIT-2023) organized by MET Institute of Computer Science, Bandra West, Mumbai on 23-24th June 2023.
- Appointed as Research Paper **Reviewer for open access International Journal of Petroleum Technology** (ISSN: 2409-787X) published from Avanti Publishers on 11th October 2023.
- Worked as **Research Paper Reviewer** for open access **International Journal of Petroleum Technology** (ISSN: 2409-787X) published from Avanti Publishers since October 2023 till date.
- Worked as **Research Paper Reviewer for Somaiya International Conference on Technology and Information Management (SICTIM 2023)** organized by K J Somaiya Institute of Management, A Constituent Institute of Somaiya Vidyavihar University, Mumbai, India, held on 24th and 25th March 2023
- Worked as Research Paper Reviewer for **IEEE 9th International Conference** on Reliability, Infocom technologies and Optimization (ICRITO'2021), Trends and Future Directions, to be held on 3-4th September 2021, organized by Amity University, Noida, India

Conferences/Workshops/Lectures Attended

- Attended a session on 'Intellectual Property Rights' organized by the Internal Quality Assurance Cell of UPG College on May 19th, 2020
- Attended National Seminar on "MOOC- Massive Open Online Courses" organized by Kirti M. Doongursee College of Arts, Commerce and Science, Dadar, on 27-04-2020
- Attended and presented research paper titled "Security Challenges and Risk Estimation for IoT based Applications" in one day National Conference on "Emerging Trends in Digital Technologies – 2020" jointly organized by SVKM's Usha Pravin Gandhi College of Arts, Science and Commerce in association with Government institute of Forensic Science, Mumbai on 27th February 2020
- Attended Workshop on "Machine Learning" from February 3 to 5, 2020, organized by Indian Women Scientists' Association (IWSA), Vashi, Navi Mumbai
- Participated in two-day workshop on "Introduction to Robotics" conducted on 31st January and 1st February 2020 held at Indian Institute of Technology Bombay (IIT Bombay), organized by ERTS lab, Department of Computer Science and Engineering, IIT Bombay
- Participation in NSS residential camp organized by the Usha Pravin Gandhi College at Karav village, Ambarnath, Thane on 5th and 6th January 2020

- Attended workshop on MSC IT, Part 1, Sem 1 Data Science Practical organized by KET's V. G. Vaze College, Mulund, on 7th October 2019

BoS Membership

- Dr. Neelam Naik represented as **University Nominee on the Board of Studies** in the subject of Information Technology for the First Year Under Graduate and First Year Post Graduate Degree Programme under NEP 2020 constituted by Guru Nanak Khalsa College of Arts, Science and Commerce (Autonomous), Nathalal Parekh Marg, Matunga and attended the BoS meeting conducted on 29th July 2023.

Dr. Neelam Naik