

# Dr. Rajesh Kumar MAURYA

Academician | Author | Researcher | IT Consultant

Ph.D(CS),M.Tech(CSE), M.Phil(IT), MCA, M.Sc(CS), MBA(IS), DMIT, GNIIT

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Mumbai, Maharashtra Indian



An Academician, Author and an Researcher with focus on Machine Learning, Data Analytics, Geo-Computing and Digital forensics. With more than **21+ years** of academic experience in teaching at Graduate & Post Graduate Levels, experience in coordinating courses, conducting FDPs, SDPs and workshops, trying best to foster a positive learning ecosystem. Committed to academic integrity and trying to explore futuristic technologies for creating effective learning ecosystem.

## PROFESSIONAL EXPERIENCE

2018-Till Date	Assistant Professor(IT), DEPARTMENT OF INFORMATION TECHNOLOGY, SVKM's Usha Pravin Gandhi College, Mumbai,400056  Programme Officer-NSS   Syllabus Revision   Workshops   Teaching & Mentoring-M.Sc/B.Sc-IT   Project Guidance   FDP
2016-2018	Assistant Professor & Researcher, UNIVERSITY DEPARTMENT OF COMPUTER SCIENCE(UDCS) , University of Mumbai, Kalina, Mumbai, Maharashtra, 400098  Teaching & Mentoring-M.Sc(CS)   Project Guide   Workshops   FDP   SDP   Resource Person   Syllabus Revision
2009-2016	Associate Professor & Associate Dean, DES's NAVINCHANDRA MEHTA INSTITUTE OF TECHNOLOGY & DEVELOPMENT(NMITD), Dadar, Mumbai-400028  Professor In-charge-MCA   Mentoring   Project Guide   Workshops   FDP   SDP   Resource Person   Syllabus Revision
2002-2009	Lecturer & Coordinator-M.Sc. Computer Science & IT, S. K. SOMAIYA COLLEGE, SOMAIYA VIDYAVIHAR, Vidyavihar, Mumbai, India-400077  IT Administrator   Teaching & Mentoring-B.Sc/M.Sc(CS/IT)   Workshops   FDP   SDP   Resource Person   Syllabus Revision
2000-2002	Software Engineer, DOLPHIN SYSTEMS, Mumbai, India-400704  Server Administration   Programming   Network

## OTHER EXPERIENCES

2023-2027	Member, Board of Studies (Computer Science) at R. P. Gogate College, Ratnagiri, Raigad
2019-Till date	Member, Board of Studies (Computer Science) at K.C. College, HSNC University, Mumbai
2023-2027	Member, Board of Studies (Computer Science) at Thakur College of Arts, Science & Commerce (Autonomous), Mumbai
2020-Till Date	Coordinator-Nodal Center-IIRS Outreach Programme at Usha Pravin Gandhi College of ASC, Vile Parle(W)
2018-2023	Programme Officer-NSS Unit at Usha Pravin Gandhi College of ASC, Vile Parle(W)
2014-2021	Member, Vidyalaya Management Committee(VMC), Kendriya Vidyalaya, Bhandup
2009-Till date	Consultant, Trainer, Content Development, Star Certification, SYBGEN Learning, Wiley, DreamTech Press
2006-2009	Coordinator- PCP program for IDE for M. Sc(CS)/M. Sc(IT), University of Mumbai
2006-2009	Coordinator, Study Center for Diploma/Degree courses(BCA) affiliated to YCMOU at S. K. Somaiya College, Vidyavihar, Mumbai
2004-2009	Counsellor, MBA (MS-07) Program affiliated to IGNOU at Somaiya Vidyavihar, Mumbai
2003-2009	IT Administrator, S.K. Somaiya College, Vidyavihar, Mumbai

## EDUCATIONAL QUALIFICATION

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- 2023 **Doctor of Philosophy(Ph.D) in Computer Science** from University of Mumbai(**Geospatial Analytics**)
- 2013 **Master of Business Administration in Information Science (MBA(IS)** from Sikkim Manipal University
- 2009 **Master of Computer Application(MCA)** from Sikkim Manipal University
- 2008 **Master of Philosophy in Computer Science(M.Phil-CS)** from YCMOU
- 2007 **Master of Technology in Computer Science and Engineering-M.Tech(CSE)** from J. R. N. Rajasthan Vidya-peeth (Deemed University)
- 2002 **Master of Computer Science(M.Sc) in Computer Science** from UDCS, UNIVERSITY OF MUMBAI
- 2000 **Bachelor of Computer Science(B.Sc) in Physics with Elec Inst** from University of Mumbai

## OTHER QUALIFICATIONS

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- MH-SET **Computer Science & Applications**
- UGC-NET **Computer Science & Applications**
- GNIIT NIIT Ltd.
- DMIT **Diploma in Management Information Technology**

## PUBLICATIONS-BOOKS(INTERNATIONAL PUBLISHERS)

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- 2022 **Android Programming : Crafting UI/UX using Kotlin** , R. K. Maurya, SYBGEN Learning, **(in Print)**
- 2021 **R Programming for Data Analytics & Visualization** , R. K. Maurya and S. R. Maurya, SYBGEN Learning, ISBN-10:8195131921, ISBN-13:978-8195131921
- 2020 **Programming through Python**, M.T. Savaliya, R. K. Maurya, G. M. Magar, Sybgen Learning
- 2018 **LEARNING R : A Language for Data Analytics & Visualization** , S. R. Maurya, R. K. Maurya, Staredu Solutions, ISBN-10 :9386765500, ISBN-13:978-9386765505
- 2018 **Computer Graphics with Virtual Reality Systems(Third Edition)**, R. K. Maurya, John Wiley, ISBN-10 : 8126576332, ISBN-13 : 978-8126576333
- 2018 **Programming through Python**, M.T. Savaliya, R. K. Maurya, G. M. Magar, Staredu Solutions,2018, ISBN-10 : 938676542X, ISBN-13 : 978-9386765420
- 2018 **Ethical Hacking**, Rajesh K. Maurya and Vipul Saluja, Staredu Solutions
- 2016 **Graph Theory & Applications**, S. R. Maurya, R. K. Maurya and G. M. Magar, John Wiley, ISBN-10 : 8126560622, ISBN-13 : 978-8126560622
- 2016 **Computer Graphics (GTU)**, R. K. Maurya and S. R. Maurya, John Wiley
- 2015 **Computer Graphics**, R. K. Maurya, John Wiley, ISBN-10 : 8126556358, ISBN-13 : 978-8126556359
- 2015 **System Programming, GTU Edition**, Rajesh Maurya, Wiley-Dreamtech Press
- 2014 **Computer Graphics with Virtual Reality Systems (Second Edition)**, Rajesh Maurya, John Wiley
- 2014 **System Programming & Compiler Construction**, Rajesh Maurya, Wiley-Dreamtech Press
- 2013 **Software Testing**, R. K. Maurya and S. R. Maurya, Wiley-Dreamtech Press, ISBN-10 : 9350044005, ISBN-13 : 978-9350044001
- 2012 **Compiler Design**, Rajesh Maurya, Wiley-Dreamtech Press
- 2011 **System Programming**, Rajesh Maurya, Wiley-Dreamtech Press
- 2009 **Computer Graphics with Virtual Reality Systems**, Rajesh Maurya, John Wiley

## PUBLICATIONS-CONFERENCES & JOURNALS

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- 2021 Maurya, R.K., Kulkarni, S.T. and Maurya S.R., “Multidimensional Spatial Analysis of Geo-objects from Unstructured Topographic Points”. ITEE, vol. 10, no. 6 , December. 2021, issn:2306-708X. (UGC CARE Journal)
- 2021 Maurya, R.K., Kulkarni, S.T. “Multidimensional spatial clustering and visualization of 3D topographic relief data”. Int. j. inf. tecnol. 13, 581–592 (2021), doi : 10.1007/s41870-020-00595-6. (Scopus & UGC-CARE 2021)
- 2018 Maurya, Rajesh K., Sushil T. Kulkarni and N. Kalita (2018), “Projection-Based Spatial Morphology for Extracting Ridge and Valley Profiles of Mountains from 3D Amorphous Data”, in Proceedings of the 2018 4th International Conference on Computing Communication and Automation (ICCCA), Greater Noida, India, 2018, pp. 1-6, doi : 10.1109/CCAA.2018.8777680. (Scopus)
- 2018 Maurya, Rajesh K. and Sushil T. Kulkarni (2018), “Morphology-Based Extraction of River Network from Multi-dimensional Topographic LiDAR Returns”. In Proceedings of 2018 3rd International Conference for Convergence in Technology (I2CT), Pune, 2018, pp. 1-6, doi : 10.1109/I2CT.2018.8529349 (Scopus)
- 2018 Maurya, Rajesh K. and Sushil T. Kulkarni, “A Review of Spatial Analysis of Multidimensional Topographic Data”, International Journal of Computer Engineering and Applications, 2018 11 (12), 253-267 (UGC 2017)
- 2018 Maurya, Rajesh K and Swati R. Maurya, Recognition of a Medieval Indic-‘Modi’ Script using Empirically Determined Heuristics in Hybrid Feature Space”. Maurya, Rajesh K. and Swati R. Maurya (2018). In : International Journal of Computer Sciences and Engineering, VI (II), 2018
- 2017 Maurya, Rajesh K. and Sushil T. Kulkarni (2017), “Multidimensional spatial clustering and visualization of 3D topographic relief data”, 11th IEEE INDIACom 4rd International Conference on “Computing For Sustainable Global Development”, March 1-3, 2017, New Delhi, 2017
- 2018 R. K. Maurya and S. R. Maurya, “Recognition of a Medieval Indic-‘Modi’ Script using Empirically Determined Heuristics in Hybrid Feature Space,” International Journal of Computer Sciences and Engineering, vol. 7, no. 2, pp. 136-142, 2018. [Online] Available:[https://www.ijcseonline.org/pub\\_paper/19-IJCSE-02860.pdf](https://www.ijcseonline.org/pub_paper/19-IJCSE-02860.pdf)

## SKILLS

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Domain of current Work	Machine Learning, Data Science, Digital Security & Forensics, Graphics & Image Processing
Programming	Python, R, C/C++, Java, Javascript, CSS
Operating System	Windows Serve R2, Windows-10/11, Linux
Databases	Oracle Database, MySQL, Microsoft SQL Server, SQLite
Development Tools & IDE	IntelliJ Idea, Visual Studio Code, Android Studio, Jupyter
Web & App Development	HTML, Android
Data Analytics & Visualization Tools	SageMath, Python, R
Network Administration	Cyberoam & Fortinet based Unified Threat Management System, Win Directory Services

## OTHER ACADEMIC ROLES AND RESPONSIBILITIES

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- 2022 **Subject Expert for Appointment of Assistant Professors** for B.Sc Computer Science, K. C College, HSNC University, Mumbai
- 2022 **Subject Expert for Appointment of Assistant Professors** for B.Sc Computer Science, SIES, Nerul, Navi Mumbai
- 2021-22 **Member of Syllabus committee** of M.Sc(CS), University of Mumbai
- 2020-21 **Member of Syllabus committee** of B.Sc(CS), University of Mumbai
- 2016-18 **Chairperson** of Examination -M.Sc Computer Science part-I, University of Mumbai
- 2019-20 **Member of Syllabus committee** of M.Sc(CS), University of Mumbai
- 2016-18 **Member of Syllabus committee** of B.Sc(CS), University of Mumbai
- 2012-16 **Chairperson** of Examination -MCA, University of Mumbai
- 2009-20 Paper setter & Moderator for T.Y.B.Sc Computer Science Examination, University of Mumbai
- 2008-20 Paper setter & Moderator for M.Sc Computer Science Examination, University of Mumbai
- 2010-12 **Member of Syllabus committee** of B.Sc(CS), University of Mumbai
- 2004-22 **Moderator & Paper setter** of M. Sc & B.Sc(CS), University of Mumbai Examinations

## REFRESHER & ORIENTATIONS

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- June, 2023 Two-week **Interdisciplinary Refresher Course on "MOOCS 27.0"** organised under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT) scheme organised by TLC Ramanujan College University of Delhi
- March, 2023 Two-week Online **Refresher Course on Information and Communication Technology** organized by the UGC-Human Resource Development Centre(HRDC), University of Hyderabad, 2023
- Dec, 2022 Two-week Online UGC - SPONSORED **Refresher Course on "Machine Learning and Data Science"** organised by HRDC JNTU Hyderabad
- March, 2022 Fifteen days **Online National Refresher course on NATIONAL EDUCATION POLICY & THE TEACHING PEDAGOGY** jointly organized by New Law College, Bharati Vidyapeeth deemed to be University, Pune; Droit Penale Group, Prayagraj and Guru Angad Dev Teaching Learning Centre under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT) of Ministry of Education., Govt of India
- Feb, 2020 SWAYAM ARPIT **Refresher Programme in Emerging Trends & Technologies in Library & Information Services**, conducted by NTA, Ministry of Human Resource Development, Govt of India
- May, 2020 SWAYAM ARPIT **Refresher Programme in Refresher Course on Teacher and Teaching in Higher Education**, conducted by NTA, Ministry of Human Resource Development, Govt of India
- Dec, 2021 **One Week Short Term Course** on "Artificial Intelligence: Evolution, challenges and opportunities for societal development conducted during" Conducted by UGC Academic Staff College, HRDC Mumbai, University of Mumbai
- Dec, 2019 **One Month Orientation Course** Conducted by UGC Academic Staff College, HRDC Mumbai, University of Mumbai

## RESOURCE@WORKSHOPS

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- 2023 Resource Person for **UGC-HRDC Refresher Course in "Artificial Intelligence and Science"** under RUSA organised by HRDC, Mumbai University
- 2021 Resource Person for UGC-HRDC **Refresher Course on "Robotics and IOT"** under RUSA organised HRDC University of Mumbai
- 2022 Resource Person for **Revised Syllabus for Computer Science (B/Sc and M.Sc)**, University of Mumbai
- 2021 Resource Person for **Revised Syllabus for Computer Science (B/Sc and M.Sc)**, University of Mumbai
- 2020 Resource Person for Four Days **Student Development program(SDP) on Python Programming** at REVA University, Bangalore, Karnataka
- 2020 Resource Person for Four Days **Student Development program(SDP) on Android Programming** at REVA University, Bangalore, Karnataka
- 2018 Resource person at **Workshop on Revised Syllabus of B.Sc(CS)** organized by Ad-hoc Board of Studies in Computer Science, University of Mumbai
- 2017 Resource person at **UGC-HRDC Refresher Course on Mathematics** organised by HRDC center, University of Mumbai
- 2017 Resource person at **Workshop on Revised Syllabus of B.Sc(CS)** organized by Ad-hoc Board of Studies in Computer Science, University of Mumbai
- 2016 Resource person at **Workshop on Revised Syllabus of B.Sc(CS)** organized by Ad-hoc Board of Studies in Computer Science, University of Mumbai
- 2013 Resource person at **Workshop on Revised Syllabus of B.Sc(CS)** organized by Ad-hoc Board of Studies in Computer Science, University of Mumbai
- 2012 Resource person at **Workshop on Revised Syllabus of B.Sc(CS)** organized by Ad-hoc Board of Studies in Computer Science, University of Mumbai
- 2004 Resource person at **Workshop on "Principal of Compiler Design"** organized by Ad-hoc Board of Studies in Computer Science, University of Mumbai

- 2022 Two Week **FDP on Malware Analysis with Data Science**, Organized by Electronics & ICT Academy, IIITDM Jabalpur, MNIT Jaipur and NIT Patna, E&ICT Academy IIITDM Jabalpur Supported by Ministry of Electronics and Information Technology (MeitY), Govt. of India
- 2021 One Week **FDP on Natural Language Processing under Electronics & ICT**, Academy NIT Patna, Ministry of Electronics and Information Technology (MeitY), Government of India.
- 2021 Online One Week **FDP on "Academic Leadership & Management of Technical Education"** conducted by AICTE Training And Learning (ATAL) Academy, Faculty of Engineering & Technology, Gurukula Kangri (Deemed to be) University, Haridwar
- 2021 Online One Week **FDP on "Artificial Intelligence and Machine Learning with Data**, AICTE Training and Learning (ATAL) Academy, Babasaheb Naik College of Engineering
- 2021 Online One Week **FDP on "Data Science & Machine Learning with Python"**, AICTE Training and Learning (ATAL) Academy, MANIPAL UNIVERSITY JAIPUR
- 2021 One Week Online **FDP on Artificial Intelligence and Geospatial Technology in Surveillance Infectious Disease**, AICTE Training and Learning (ATAL) Academy, KCG College of Technology
- 2021 Outcome Based Education and CO-PO Mapping organised by S K Somaiya College, IQAC and Exam Cell
- 2021 One Week Online **FDP on "Artificial Intelligence"**, AICTE Training And Learning (ATAL) Academy, University College of Engineering & Technology
- 2021 One Week Online **FDP on "Machine Vision and Digital Twin"**, AICTE Training And Learning (ATAL) Academy, Sathyabama Institute of Science and Technology
- 2020 One Week **FDP on "Current Trends and Future Technologies in Computing"**, UPG College & University Department of IT, Mumbai University
- 2020 One Week **FDP on "A Boot Camp on Artificial Intelligence, Machine learning and AI Chat bots"**, organised by K. C. College and University Department of IT, University of Mumbai
- 2020 One Week FDP on **Assessment and Evaluation in Higher Education**, conducted under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT), Govt of India
- 2020 Three Week **"Online Course on Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials**, Indian Institute of Remote Sensing (IIRS), ISRO
- 2020 One week **course on "Online course on Satellite Photogrammetry and its Application"**, Indian Institute of Remote Sensing (IIRS), ISRO Dehradun
- 2020 One week **course on "Remote Sensing and Digital Image Analysis"**, Indian Institute of Remote Sensing (IIRS), ISRO Dehradun
- 2020 One week AICTE Sponsored online Short term Training Programme on **"Tableau- Data Visualization Tool for Researchers"**, IFET college of Engineering
- 2020 Online **FDP on "Cyber Security"**, AICTE Training And Learning (ATAL) Academic, Government Engineering College
- 2020 Online **FDP on "Data Sciences"**, AICTE Training And Learning (ATAL) Academic, IFET COLLEGE OF ENGINEERING
- 2020 Online **FDP on "Artificial Intelligence"**, AICTE Training And Learning (ATAL) Academy, IIIT, Naya Raipur
- 2020 Online **FDP on "Block Chain"**, AICTE Training And Learning (ATAL) Academic, Indian Institute of Information Technology Dharwad
- 2020 Four Day Online **Workshop on "Research Writing skills-Workshop Series -01"**, Galgotias University
- 2015 Two Week FDP on **Understanding Digital Business**, conducted by Vishwakarma Institute of Management, sponsored by AICTE
- 2013 Two-week **ISTE workshop, on "Database Management Systems"** conducted by IIT Bombay
- 2012 Two week **workshop on "Introduction to Research Methodology"** (conducted by IIT Bombay with support of Ministry Of HRD)
- 2012 Three day **workshop on "Softcomputing & DSP"** conducted by University Department of Computer Science, University of Mumbai
- 2010 Workshop on Syllabus of TY B.Sc(CS) jointly organized by University of Mumbai, held at Kirti College, dadar on 04th May 2010.
- 2009 **Workshop on "Research in Computer Science"**, University Department of Computer Science, University of Mumbai
- 2005 **Workshop on "Revised Syllabus of T.Y.B.Sc Computer Science"** organised by Board of Studies and V. G. Vaze College, Mumbai
- 2005 **I.S.T.E approved training program on "Information and System Security : Today and Tomorrow"**, organised by K. J. Somaiya College of Engineering, Viyavihar, Mumbai

## PROJECTS

### SPATIAL ANALYSIS & VISUALISATION OF TOPOGRAPHIC DATA

2021

Evaluation, development & visualization methods for spatial analysis of multidimensional topographic data.

Spatial Analysis Visualization Data science

### VIRTUAL MODELS AND IMMERSIVE INTERACTION FOR IMPROVED MULTIMEDIA EXPERIENCE

2011

Hypermedia experience including immersive visualization and auditory experience in an virtual concert environment.

AR/VR Visualization Graphics & Image Processing

### ADAPTIVE TEMPLATE BASED MULTILINGUAL OCR

2009

Designed and developed self learning templates based OCR for multilingual documents witten in English, and Hindi

Graphics DIP Visualization

### 3D MORPHING USING VOLUME INTERPOLATION

2007

Developed a complete framework morphing an object to other using volume based morphing. For performance and fast convergence multidimensional star shaped polyhedral surface approximation was used.

Graphics DIP Visualization

### MACHINE ASSISTED STORY GENERATION USING ADAPTIVE CONTEXTUAL ENCODING

2006

Automatic theme based scripts/story generation for most likely story track with support confidence for given set of props and key events. Also suggests most probable next event with different climax.

NLP Text Generation AI

## OUTREACH AND VOLUNTEERING

Tree Plantation	Green Mumbai Initiative (Majhi Vasundhara Abhiyan)
Workshops	Professional Workshops for Faculty Development
Literacy	Free Seminar and Training during COVID pandemic
Reviewing	Reviewing conferences and academic contents

## PROFESSIONAL MEMBERSHIPS

Life Member	Computer Society of India(CSI), since May 2013
Life Member	IAENG (International Association of Engineers), since Jan 2009
Member	Association of Computing Machinery (ACM), since Jan 2007
Life Member	Indian Society for Technical Education (ISTE), since Jan 2005

## LANGUAGES PROFICIENCY

English	● ● ● ● ●
Hindi	● ● ● ● ●
Marathi	● ● ● ● ●
Gujarati	● ● ● ○ ○

## STRENGTH

- > Committed
- > Rational
- > Motivator
- > Responsible

## REFERENCES

### Dr. Varadraj Bapat

Professor, SJMSOM, IIT BOMBAY, MUMBAI-76

@ varadraj@som.iitb.ac.in

### Dr. Jyotsana Dongardive

Head, UDSCS, UNIVERSITY OF MUMBAI

@ jyotss.d@gmail.com

### Dr. G. M. Magar

Head, Department of Computer Science, SNDDT WOMEN'S UNIVERSITY

@ drgmmagar@gmail.com

### Dr. K. V. Kulkarni

Director, DFSL Mumbai, GOVT OF MAHARASHTRA

@ krishnakulkarni96@yahoo.com