

DR. MEGHANA NAGORI

Mob: +91-9028582137 Email: kshirsagarmeghana@gmail.com

PROFILE

A resourceful and dedicated **Lecturer / Associate Professor / Data Science Specialist**, with diverse experience and an exceptional record of sustained success; heading academic departments and driving forward best practice. A strategically focussed leader and committed academic, passionate about ensuring the highest levels of teaching methodologies, who genuinely values opportunities to learn, improve and grow in pursuit of positive change. An accomplished manager, able to assess, define and execute the needs of teams; developing and training colleagues whilst heading academic projects and publishing research. Highly adept as a Data Science expert, with valuable pedagogical expertise, deep subject knowledge and comprehensive teaching and lecturing experience: Now looking for a challenging opportunity, where strengths and absolute commitment will bring immediate value.

KEY SKILLS AND EXPERTISE

- Management and Leadership
- Lecturing – Tutoring/Teaching
- Broad Technical Knowledge - Data Science
- Computer Science and Engineering
- Supervised academic courses
- Research, Analysis and Reporting
- Strategic Planning and Organisation
- Results Orientated – Driving Performance
- Team Work/Interpersonal – Communication
- Data Analysis – Monitoring
- Achieving/Winning Funds
- Subject Matter Expert – International Reputation
- Networking – Conferences/Key Note Speaker
- Multi-disciplinary Work
- Editor & Student Recruitment Lead
- Documentation Management - Administration
- Strong Problem Solving Strengths
- Documentation Management - Administration
- Mentoring, Training and Supervision
- Stakeholder Liaison and Stakeholder Management

KEY QUALIFICATIONS

June 2010 - Feb 2017: **Doctor of Philosophy in Computer Science and Engineering**, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra, India.

- Dissertation: "Developing Models and Procedures in the Effective analysis of MRI Data of Brain Diseases".
- Supervisor: Professor Madhuri Joshi

June 1999 – Feb 2001: **Master of Computer Science and Engineering (Hons)** National Institute for Technical Teachers Training and Research, Chandigarh, India.

June 1991 - June 1995: **Bachelor of Computer Science and Engineering(Distinction)**, Government College of Engineering, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India.

SELECTED HIGHLIGHTS OF EXPERTISE

- Working as a **Lecturer / Associate Professor** for a number of years whilst concurrently undertaking original and highly academic research; managing projects and ensuring the highest standards of research methodologies before publishing work on a frequent basis* (see publications below*)
- Holding multiple additional / concurrent positions, including: Member of Academic Council; Member of the Board of Studies; Member of Grade Moderation Committee and Member of the Quality and Assurance Team.
- Achieving and receiving a range of Funds awarded for participation in training, delivering workshops and for continuing education programmes (CEPs) at an institute of national importance.
- Consistently receiving an 'A' grade in performance appraisals by administrative superiors for 5 consecutive yrs.

- Designing an accredited Curriculum & creating accompanying material/resources to ensure effective delivery. Driving forward teaching standards by training & mentoring colleagues within the Computer Science Department.

EXPERIENCE

Oct 2015 – Present **Associate Professor**
Government College of Engineering

Key Achievements:

- Playing a leading role in delivering a strategic vision for driving forward student performance within the Computer Science and Engineering Department, involving: Ideas development; forward planning; research, analysis and evaluation; problem solving and resolution, and the focusing of our key objectives – establishing and managing a short, medium and long term development plan.
- Teaching/lecturing related seminars/modules; involving `traditional` lecturing as well as dynamic group teaching, academic writing sessions, feedback sessions, performance analysis and essay marking etc. This involves teaching 60-70 students in a class, with 3 hrs/week teaching, tutorials for 4 hr/week and laboratory sessions of 8/week.
- Ensuring the continual development of new schemes of work etc.; assessing new ideas/resources against established Curriculum/aims and ensuring adherence to the colleges standards/processes.
- Completing all related duties as a Tutor/Lecturer, including; planning and preparing appropriate sessions and materials; meeting/liasing with students, and participating in (and managing) meetings.
- Liaising effectively with the College`s senior management to pro-actively explore innovative ways to support student learning and bring both academic and creative success.
- Concurrently managing complex research projects and ensuring the timely delivery of research conclusions; publishing the work when appropriate.
- Ensuring all aspects of student safeguarding is adhered to at all times; ensuring an excellent personal understanding of all related governance and guidance.
- Consistently receiving very positive feedback from managerial appraisal and receiving excellent levels of attainment related to student performance in general.
- Instructing undergraduate and postgraduate coursework and seminars and supervising laboratory work.
- Actively guiding approx. 40 dissertation titles for postgraduate students.
- Managing a range of related tasks, including various administrations/processing roles - dealing with ad-hock issues that arise on a daily basis.

Courses taught/ supervised:

- ✓ CS353: Data Mining and Warehousing for third year Undergraduate students for total of 4 Credits which encompassed 3 theory hours/Week,1Tutorial hour/week and 2 Practical Hours/Week.
- ✓ CS441: Advanced Algorithms for Final Year Undergraduate.
- ✓ CS354: Professional Ethics and Cyber laws for third year Undergraduate students.
- ✓ CS541: Advanced Algorithms for First Year Postgraduate students
- ✓ CS550: Advanced Data Mining for First Year Postgraduate students
- ✓ Data analytics for Final Year Undergraduate Students
- ✓ Advance Data Mining for First Year students
- ✓ In addition to the above numerous diverse courses like Database Management System, Design and Analysis of algorithms, Discrete Mathematics and Principles of Compiler Design.

PRIOR ROLES

2002 -2015: Assistant Professor, Government College of Engineering

1997 -2001: Lecturer, Jawaharlal Nehru Engineering College, Aurangabad, India

1995 -1997: Technical Trainer, Datapro InfoWorld Ltd.

ACHEIVEMENTS

- Completed Master of Computer Science and Engineering Degree with Honors.
- Was ranked first state wide in the candidate selection process for lecturer in Computer Science and Engineering by state government of Maharashtra.

- Gold Medallist and among top 2% with a score of 94% in the Certification Course “Business analytics and Data Mining Modeling Using R Part II” a four week course offered by NPTEL, October 2018.
- Completed “Introduction to R for Data Science” ,, a four week course offered by Microsoft at www.edx.com , Aug 30,2017
- Successfully completed “ Programming with R for Data Science” , a four week course offered by Microsoft at www.edx.com, Sep 28,2017
- “Using Python for Research”, a four week course offered by Harvardx, at www.edx.com, Nov 29,2017

EXAMPLES OF RESEARCH EXPERIENCE/PUBLICATIONS

1. Meghana Nagori , Pawar Suvarna and Vivek Kshirsagar, “Managing Asthma in Children And Analyzing Best Possible Treatment With Data Mining Approach of Classification”, Proceedings of the World Congress on Engineering and Computer Science 2009 Vol II WCECS 2009, October 20-22, 2009, San Francisco, USA, pp.2-7
2. Dr. M. B. Nagori Masarrat Mirza, “ Optimizing Task Assignment in Hadoop Using an Efficient Job Size-Based Scheduler”, International Conference on Intelligent Computing and Control Systems(IEEE), pp.1287-1292
3. Shilpa A. Sanap, Meghana Nagori, Vivek Kshirsagar, “ Classification of Anemia Using Data Mining Techniques”, International Conference on Swarm, Evolutionary, and Memetic Computing, SEMCCO 2011: Swarm, Evolutionary, and Memetic Computing, LNCS, volume 7077 ,pp 113-121
4. Meghana Nagori, Madhuri Joshi, “Comparative Analysis of Classifiers for Brain Tumour Detection Using Metabolites from Magnetic Resonance Spectroscopy Graph”, International Journal of Computer Science and Information Technologies, Vol. 6 (5) , 2015, pp.4829-4832
5. Meghana Nagori, Madhuri S. Joshi, “Brain Tumour Disease Pattern Identification from Metabolites in Magnetic Resonance Spectroscopy Graph using Data Mining Techniques”, International Journal of Computer Applications, Volume 138(15), March 2016, pp.19-22

50+ more papers published in various international conferences and peer reviewed journals. Approx 125+ citations and an h-index of 5. Additionally, 10 first author papers and multiple research articles mainly in the domain of fMRI Brain Analysis, data mining and big data analytics, and machine learning - Details of others are available on request.

ADMINISTRATIVE / OTHER ROLES AND EXPERIENCES

- Member of department’s Board of studies for undergraduate and postgraduate programmes and Institute’s Board of Studies for extra –curricular Activities.
- Member of Grade moderation Committee for the department.
- Faculty and Staff Development Coordinator of the department.
- Coordinated in sanctioning funds of Rs.5, 00,000 for deploying department’s faculty and staff to diverse training programmes.
- Department’s National Board of Accreditation Coordinator and supervisor for the department’s faculty in the preparation of relevant documents for the upcoming visit.
- Prepared department’s documents for audit information for the TEQIP(Phase –II/Phase III) world bank project
- Editor-in-Chief of annual college magazine since last three years. Managed Rs.60,000 for the publication of the annual catalyst magazine-edition 3 (Feb-March 2018)
- Worked with multi-disciplinary colleagues in the design of Institute’s Brochure.
- Teamed with multidisciplinary colleagues in arranging workshops that provides an orientation programme to address girl’s grievances.
- Designed entrance exam question paper for postgraduate admission.

- Assisted in admission processes by teaming with interdisciplinary colleagues for undergraduates and postgraduates – leading important interviews.
- Chaired in a technical session for IEEE conference and reviewed papers in various international conferences.
- Delivered Expert talks in Universities, Institutes and Polytechnic Colleges.

(Many other senior management related roles undertaken – further details are available on request)

ADDITIONAL INFORMATION

Selected Funds Awarded: (More achieved – details available on request)

- Participation in Faculty Development Programme “Leading with Joy”, Indian Institute of Management, Bangalore, 22/11/2013-24/11/2013, Funds under TEQIP(Technical Education Quality Improvement Programme)-Phase II of amount Rs.80,000/- under the head Enhancing Knowledge and Research Competence
- Participation in Faculty Development Programme “Advanced Data and Web Analytics” Malaviya National Institute of Technology,Jaipur,16/12/1720/12/17, Funds under TEQIP(Technical Education Quality Improvement Programme-Phase II) Rs.35,000/- under the head Enhancing Knowledge and Research Competence
- Participation in Continuing Education Programme “Technology- driven Innovation and Entrepreneurship” Indian Institute of technology, Bombay, 6/2/17-10/2/17.

(Participation in around more than 30+ workshops for faculty development programmes.Details available on request)

Workshops Organized:

1. Organized a four day workshop on “Blockchain technology and Applications”,8-11 sept 2018 for 135+ Participants.
2. Organized a five day Weekend Workshop on “Scalable Learning with Tensor Flow “, 6/10,13/10/14/10,20/10 and 21/10 2018 for 60+ Participants from institute as well as local Engineering colleges.
3. Organized a one day awareness workshop on “Mozilla Outreachy internship oppurtunities for girl students”,7/10/18 with a participation of more than 100+ girls.
4. Organized a Two day Workshop on “Modern Web Technologies and Git Versioning and Control” for 70 Participants 23 and 24 Sept 2017.
5. Organized a One day Workshop on “Machine learning in Healthcare”, 5/3/18
6. Member of Organizing Committee for faculty development programme on “Python Programming for Image Processing”,19-23 Sept.2018
7. Member of Organizing Committee for faculty development programme on “Network Security”,7-11 Oct 2013
8. Member of Organizing Committee for faculty development programme on “NBA workshop Phase I and Phase II,7/2/14,22/2/14-24/2/14
9. Coordinated Two week “ Induction Programme” from 1/08/18 – 15/08/18 for First Year Computer Science Engineering Students

Professional Associations:

- Institution of Engineer's, India (IEI)
- Indian Society for Technical Education (ISTE)
- Computer Society of India (CSI)
- Institution of Electronics and Telecommunications Engineers (IETE)
- Institute of research engineers and doctors (IRED)

Research Interests:

- Machine Learning
- Recommender Systems
- Medical Informatics (Neuroscience and Cancer research)
- Algorithms and Optimization

Technical Skills: Data and Analytics Tools/languages: Python, Hive, SQL, Tableau, Hadoop, Cloudera services, Weka
Skills: Machine learning (Unsupervised and Supervised learning); Neuroscience Tools, SPM toolbox –MATLAB, GIFT, FSL
Algorithms: Graph Theory, Markov Models and Chains, Randomization and Approximation algorithms.

LINKS:-

Google scholar: <https://scholar.google.co.in/citations?user=M-8lxcwAAAAJ&hl=en>

LinkedIn: <https://www.linkedin.com/in/meghana-kshirsagar-0843415/>

References are available on request