Dr. Hariram K. Chavan

Professor, Dept of Information Technology, KJSIEIT, Sion.

Contacts – hariram@somaiya.edu, chavan.hari@gmail.com,   8454048354/9224665607

Being in the teaching profession for more than 25 years, supporting students, developing instructional plans and highly numerate individual with strong analytical skills. Being soft spoken person the experience I have gained over the years, utilizing it for personal and professional success of students in today's world. I believe it is one of the greatest achievements of my teaching career. I believe in sustaining an effective learning environment through prepared classes and relevant assignments thereby achieving classroom management and academic goals.

Administrative Experience

Successfully completed the tenure of Head of Department at FCRIT from July 2017 till Jan 2020 by managing and empowering the department to achieve the highest possible standards of excellence. Displayed exceptional leadership and management skills that led the program Information Technology at FCRIT recognized, appraised and accredited by NBA in 2019. With the urge to excel further, worked extensively and applied for NAAC.

Privileged to be a Member of Syllabus Setting Committee since 2014 in University of Mumbai. Designed the syllabus for various courses at UG and PG level to pace up with latest trends and meet industrial requirements. Being a pioneer in Machine Learning, received minor research grant in 2013-2014.

Awarded with Rs. 10 lakhs grant by AICTE-Industry Institute Partnership Cell (IIPC) in financial year 2010-11 to give corporate exposure to budding engineers. Honored to be invited by INS Valsura, Indian Navy for a 2 weeks workshop on 'AI and Big Data' in June 2019 at Gujarat. With a zest to customize the latest technology to solve real world problems, recently submitted an international research proposal at European Union Horizon 2020 for 'Personalized Risk Prediction using Artificial Intelligence, Big Data Analytics and Cloud Computing' that facilitates speedy diagnoses of COVID-19 patients with accuracy.

Work Experience

01/2020 - Present

- **Professor, Dept of Information Technology, Dean Administration**
  K. J. Somaiya Institute of Engineering and Information Technology, Sion. Mumbai

07/2017 – 01/2020

- **Professor and Head IT Department**
  Fr. C. Rodrigues Institute of Technology, Sector-9A, Vashi, Navi Mumbai

08/2002 - 07/2017

- **Lecturer - Associate Professor**
  Terna Engineering College, Nerul, Navi Mumbai

07/2001 - 06/2002

- **Lecturer**
  Institute Of Technology for Women, SNDT Santacruz, Mumbai

07/1996 – 07/2001

- **Lecturer**
  Bharati Vidyapeeth's Institute of Technology, Belpada, Navi Mumbai

Education

08/2017

- **VJTI, Mumbai**
  Ph.D., Computer Engineering
  Design & Optimization of Cache Replacement Policies for Mobile Environment

08/2006

- **Walchand College Of Engineering, Sangli**
  M. E., Computer Engineering
  Neural Network & Fuzzy Logic

07/1993

- **Walchand College of Engineering, Sangli**
  B. E., Computer Science and Engineering

Work for University of Mumbai

Member of syllabus setting committee

- Designed the syllabus for MECOMP Advanced Database System.
- Designed the syllabus for TEIT-CGVRS. -2014.
- Designed the syllabus for MEIT-Data Science. -2016.
- Designed the syllabus for BEIT-Soft Computing. -2017.
- Designed the syllabus for SEIT-2020.
- Designed the syllabus for MEIT-Data Analytics-2022

Awards

- Best paper award: A Markov Model Based Cache Replacement Policy for Mobile Environment, at International Conference on Technology Systems and Management (ICTSM – 2011), February 25-27, 2011.

- Third rank in the Poster Presentation for Research Scholars on "NATIONAL SCIENCE DAY", VJTI, 29th February 2012.

Grants

- AICTE-Industry Institute Partnership Cell (IIPC) Rs. 1000000.00 for financial year 2010-11.

- AICTE-Modernization and Removal of Obsolescence (MODROB) for financial year 2019-20.

- Mumbai university "Small project", Rs. 15000.00

Courses/Workshops/Seminars

Convener

- NS2 Workshop

Coordinator

- DBMS and GUI
- Database Management System, IIT Mumbai
- Computer Networking, IIT Mumbai
- Data Mining & Business Intelligence

Conducted

- Big Data Analytics
- Network Security
- Data Mining with R
- R Programming
- Data Mining and R Programming, TEC Nerul

Expert Lecture

- "Data classification and Association –Python", Vidyalankar School of Information Technology, Wadala East, 06 March 2020.
- "Database Management", TEC Nerul, 27-3-2019.
- "Artificial Intelligence & Machine learning", PMMMNMTT scheme, RUSA sponsored by MHRD, VJTI Mumbai, 26-12.2018. "Data Structure & Analysis", Terna Engineering College, Nerul, Navi Mumbai, on 11th September 2018.
- "Genetic Algorithm and Machine Applications", STTP on "Hands on: Machine Learning using Python", SPIT, July 6, 2018.
- "Orientation workshop on Outcome based Accreditation", SPSPM, SKN Sinhgad College of Engineering, Pandharpur on June 9, 2018.
- Application of Design, Analysis with R programming, MCA, SPIT, 20th March 2018.

Expert Lecture

- "Linear Programming and Dimensionality", Information Technology, SPIT, March 2018.
- "Machine Learning", at STTP, FCRIT, Computer Engineering, on 2nd Jan 2018.
- "Data Analytics and R Tool" , at Rizvi College of Engineering, on 9th October, 2017
- "Data Analytics", at Bharati Vidyapeeth College of Engineering, Navi Mumbai, on 14th September, 2017
- "R-Tool" , at Shree L R Tiwari College of Engineering on 8th August, 2017
- "Data Science", at ARMIT, Mumbai, on 1st and 4th April 2017.
- "Data Science", at Vidyalankar Institute of Technology, Mumbai, on 10th February, 2017.
- "Data Structures and Algorithm Analysis" at Father Conceicao Rodrigues Institute of Technology (FCRIT) Vashi, Navi Mumbai on 30th August 2016.
- "Data Mining and Business Intelligence" at Father Conceicao Rodrigues Institute of Technology (FCRIT) Vashi, Navi Mumbai on 27th February 2016.
- "Neural Networks and its Application" at STTP organized by Department of Electronics and Telecommunication, Saraswati College of Engineering, Kharghar, Navi Mumbai on 3rd July 2015.
- "Data Mining Classification & Clustering", at STTP on Advanced Data Mining – Tools & Techniques organized by Shah & Anchor Kutchhi Engineering College Mumbai. Sept 2014.
- "Header Files and Make Utility", at NS2 Workshop organized by Terna Engineering College, Nerul, Navi Mumbai on 7th FEB 2014.
- "Neural Networks and its Applications" at STTP on Image processing, Artificial Intelligence and its Applications organized by HVPMCOET, Amravati, on 23rd Nov 2013.
- "Neural networks" at STTP on Advancement in Electronics and Telecommunication Technologies organized by K C College of Engineering and Management Studies and Research, Thane on 17th June 2013.
- "Data Mining Applications" at National Workshop on Data Warehousing and Data Mining (NWDWDM-10) organized by Department of Computer Science & Information Technology Dr. Babasaheb Ambedkar Marathwada University Aurangabad, February 25-27, 2010.
- "Database Management System" at Department of Computer Engineering, Gharda

Research Publications

Patent
- H. Chavan, and S. G. Bhirud, "HMM and Association based Cache Management System for Mobile Environment.", Patent Application Number 201621001367 dated 14th January 2016.

Journals

- H. Chavan, S. Sane, and H. B. Kekre, "A Dynamic Markov Biclustering Cache Replacement Policy for Mobile Environment", In International Journal of Computer Applications, pp. 11-17, 2011.
- H. Chavan, S. Sane, and H. B. Kekre, "Neural Network based Mobility aware Prefetch Caching and Replacement Strategies in Mobile Environment", In International Journal of Advanced Computer Science and Applications, Vol.4, No. 5 pp. 154-160, 2013.

International Publications

- H. Chavan, S. Sane, and H. B. Kekre, "Locations Prediction with Hidden Markov Models in Mobile Environment", in proceedings of International Conference on Advances in Computing and Information Technology, ICACIT'14, pages 223–228, December 2014.
- H. Chavan, S. Sane, and H. B. Kekre, "A Markov-Graph Cache Replacement Policy for Mobile Environment", in proceedings of International Conference on Communication, Information and Computing Technology, ICCICT'12, pages 1–6, October 2012.
- H. Chavan, S. Sane, and H. B. Kekre, "Mobile Database Cache Replacement Policies: LRU and PPRRP", In proceedings of The First International Conference on Computer Science and Information Technology, COSIT'11, pages 523–531, January 2011.

International Publications

- H. Chavan, S. Sane, and H. B. Kekre, "A Markov Model based Cache Replacement Policy for Mobile Environment", in proceedings of International Conference on Technology Systems and Management, ICTSM '11, pages 18–26, February 2011.
- H. Chavan, S. Sane, and H. B. Kekre, "A Dynamic Markov Cluster Prefetch Cache Replacement Policy for Mobile Environment", in proceedings of International Conference on Network Infrastructure and Management Systems, INTERFACE '11, pages 77-83, December 2011.
- H. Chavan, S. Sane, and H. B. Kekre, "Mobile Database Cache Replacement Policies: Temporal, Spatial and Temporal-Spatial", in proceedings of International Conference on 'On Demand Computing, ICODC '10, pages 1–6, November 2010.
- S. Desai, H. Chavan, and D. K. Chitre, "Location Based Services Cache Replacement Policy for Mobile Environment", In proceedings of International Conference of Technology Systems and Management, ICATE '13, pages 1–6, January 2013.
- N. Jagtap, A. Chavan, and H. Chavan, "Modified PAID policy for improving Spatial Behaviour", In proceedings of International Conference on Advances in Computing and Information Technology, ICACIT '14, pages 218–222, December 2014.

National Conferences

- H. Chavan, S. Sane, and H. B. Kekre, "A Survey of Mobile Database Cache Replacement Policies", In proceedings of National Conference on Intelligent Information Retrieval, NCIR'10, pages 42–46, September, 2010.
- H. Chavan, S. Sane, and H. B. Kekre, "Mobile Database Cache Replacement Policy: PPRRP", In proceedings of 2nd National Conference on Nascent Trends in Information and Communication technologies, Equinox-2010, pages 139–142, September, 2010.

Student Publications

- Content based image retrieval using relevance feedback with color spatial feature, International Conference on Science, Engineering and Spirituality (ICSES' 10), S.E.S College of Engineering, Navalnagar, April 1-2, 2010.
- A geometrical feature classified leaf recognition algorithm using probabilistic Neural Network, International Conference and Workshop on Emerging Trends in Technology, February 26-27, 2010.

- Mobile Phones as remote Control for Device and PC Control, National Conference on Emerging Trends in Engineering and Technology, Shree L. R. Tiwari College of Engineering, Mumbai-401107, March 11, 2011.

- Dakshata Argade, Hariram Chavan, Improve Accuracy of Prediction of User's Future M-Commerce Behavior. International Conference on Advances in Computing, Communication and Control-April 1st, 2015
- N. R. Bhosale, H. K. Chavan, Interesting Measure Computations & Mining For Data Cube, International Conference on Communication and Computing (ICC-2016), July 9th – 11th, 2015.
- Shruti D. Meshram, H. K. Chavan, Agent Guilt Model and Fake Object Distribution for Identifying Data Leakage. International Journal of Technical Research and Applications e-ISSN: 2320-8163, Special Issue 31(September, 2015), PP. 22-28, www.ijtra.com.

- Arjun, Anish, Kirtana, H K Chavan, Contextual Text Summarizer for Mails, IEEE International Conference on Current Trends Towards Converging Technologies, ICCTCT 2018, March 01-03 2018.
- Mamta Patil, H K Chavan , Event Based Sentiment Analysis of Twitter Data, International Conference on Advances in Big Data, Computing and Data Communication Systems
- Aaroosh Pandoh, Ankita Gawde, Delrina Michael, Gaurav Singh and Hariram Chavan, Tourist Guide with intelligent chat box, April, 2018.

- Animesh Pawar, Vaibhav Suvarna, H. K. Chavan, Intelligent Attendance System With Attention Analysis, 2nd international conference on Advances in Science and technology (ICAST -2019), 8-9th April 2019.

2019

2018

2015

Student Publications

- Sneha Singh, Sneha Zacharia, Jibbin P. Mathew, Hariram K. Chavan, S. Park: A Smart Parking Approach, Fifth International Congress on Information & Communication Technology (ICICT 2020), February 20-21, 2020 at Newton Room, Hamilton Centre, Brunel University London, UK.

Paper Review

- International Conference on Advances in Computing and Information Technology-ICACIT 18-19th December 2014.
- International conference on Technologies for Sustainable Development-ICTSD 4-6th Feb 2015.
- 3rd National Conference on Advances in Technology and Management 2016, 21-22 March 2016.
- IEEE Access Journal.
- 2nd Biennial International Conference on Nascent Technologies in Engineering, Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, January 27-28 2017
- 4th National Conference on Advances in Technology and Management (NCATM-2017), March 2017.
- IET Software Journal.
- International Conference on Innovation and research in Technology and Engineering, October 2017
- Fist International Conference on Smart City and Emerging Technologies, January, 2018.
- 2nd international conference on Advances in Science and technology (ICAST -2019), April 2019
- First International Conference on Automation, Computing and Communication (ICACC-2020), April-2020.
- IEEE International Conference on Advances in Computing, Communication, and Control (ICAC3'21), December-2021.