


Faculty Profile

Name of Faculty	Dr. Sejal Santosh Nimbhorkar	
Department	Computer Science and Engineering	
Qualification	B.E., M.E., Ph.D.	
Designation	Association Professor, Dept. of CSE, BNMIT	
Area of specialization	Data Mining, Web Mining, Sentiment Analysis	
Date of Joining BNMIT	19.07.2017	
Nature of Association (Regular/Contractual/Adjunct)	Regular	
e-mail	sejalsantoshnimbhorkar@bnmit.in sej_nim@yahoo.co.in	
No. of years of Experience	Teaching: 7.4 years Industry: 7 years Research: 3 years	

Educational Qualification

Degree	Institution	Month and Year of Passing	% of marks Obtained
Ph.D (CSE)	University Visvesvaraya College of Engineering, Bangalore University	March 2017	
M.E. (CSE)	University Visvesvaraya College of Engineering, Bangalore University	July 2007	78%
B. E. (CSE)	Dharmsinh Desai Institute of Technology, Gujarat University	June 1996	66 %

Working Experience

Sl. No	Designation	Institution / Organization	Duration
1	Associate Professor	BNMIT, Bangalore, India	July 2017 – Till date
2	Associate Professor	T. John Institute of Technology, Bangalore, India	July 2016-June 2017
3	Full time Research Scholar	University Visvesvaraya College of Engineering, Bangalore, India	March 2013 – March 2016
4	Assistant Professor	T. John Institute of Technology, Bangalore, India	July 2010-March 2013
5	Lecturer	AMC Engineering College, Bangalore, India	August 2009 - June 2010
6	Verification Engineer	Chips and Systems, USA	September 2007 – May 2009
7	Lecturer	AMC Engineering College, Bangalore, India	September 2004–August 2005
8	Project Leader	Reliance Industries Ltd, Hazira, India	May 1996 – May 2001

Subject taught

Topics Taught: UG : System Modeling and Simulation, Design and Analysis of Algorithms, Design and Analysis of Algorithms Lab, Advanced Java, Operating Systems, Data Structure Lab, Database Management System, Database Management Lab, Data Mining, Data Structure in 'C', Client Server Computing, Computer Organization, Java and Internet Programming, Computer Graphics Lab, Java Lab.

PG: Multi-core Programming, Probability, Statistics and Queuing Theory, Wireless Communication, Object Technology, Advanced Algorithms, Computer System Performance Analysis.

Research Experience Details:

Ph.D:

Efficient algorithms for web recommendations systems were investigated. It includes query, web page and image recommendations to enhance users' search experience. Query Relevance Graph (QRG) and Related Search Recommendations (RSR) framework are proposed for query recommendations. Web navigation prediction framework and User Session Graph are designed for webpage recommendations by using user request on the web. Conversion Prediction for advertisement using Expectation Maximization is presented as webpage recommendations application. Absorbing Markov Chain for annotated images, user relevance feedback session with visual features and ANOVA Cosine Similarity framework are proposed for image recommendations.

Student Projects

1	Project CCTV footage summarization and monitoring selected for second round in Smart India Hackathon 2019 – Hardware addition
2	Project Money Bin selected for the final competition in Anveshana 2019. Funding Agency : NewGen Innovation & Entrepreneurship Development Centre, BNMIT Sponsored by NSTEDB, DST, Govt. of India Amount : 2 lakhs Duration : 06 months
3	Title: Visualization of User's Web-browsing Behavior from Web Usage Data using Mining Techniques Funding Agency: Karnataka State Council for Science and Technology (KSCST), Karnataka, India Amount: 5 thousand Duration: 05 months

Academic Positions and other Responsibilities (University Level):

1. Appointed as a Deputy Chief Superintendent (DCS) for the conduct of December 2016/January 2017 UG/PG Exam from VTU

Academic Positions and other Responsibilities (Institute Level):

1. Appointed as a **MEMBER of Board of Examiners (BOE)**, PG for Exams of 2019-20 for ME – Computer Science and Engineering / Information Technology Engineering at UVCE, Bangalore University.
2. Appointed as a **MEMBER of Board of Examiners (BOE)**, PG for Exams of 2018-19 for ME – Web Technologies and Computer Networks at UVCE, Bangalore University.
3. Appointed as a **MEMBER of Board of Examiners (BOE)**, UG for Exams of 2017-18 for BE – Computer Science and Engineering and Information Science and Engineering at UVCE, Bangalore University.
4. **Coordinator** for organizing 12th International Multi-Conference on Information Processing IMCIP-2016 at UVCE, Bangalore
5. **Coordinator** for organizing 11th International Multi-Conference on Information Processing IMCIP-2015 at UVCE, Bangalore
6. **Coordinator** for organizing 8th International Multi-Conference on Information Processing IMCIP-2014 at UVCE, Bangalore
7. **Coordinator** for organizing National Conference RATE-2017 at T John Institute of Technology
8. **Coordinator** for organizing National Conference RATE-2012 at T John Institute of Technology
9. **Coordinator** for organizing National Conference RATE-2013 at T John Institute of Technology
10. **Coordinator** for Faculty Development Program (FDP) sponsored by VTU-VGST, 2013 at T John Institute of Technology
11. **Coordinator** for organizing National Conference on Information Processing – 2010 at AMC Engineering College

Chairmanship / Reviewer at National/International Conference/Seminars:

1. **Doctoral Committee Member** for progress evaluation of Research Scholars at Vivekananda Institute of Technology, Bangalore, July 2019.
2. **Doctoral Committee Member** for progress evaluation of Research Scholars at Vivekananda Institute of Technology, Bangalore, March 2019.
3. Invited as a **Session Chair** for 14th IEEE International Conference on Information Processing December 2018.
4. **Reviewer** in IEEE Access Journal, 2018.
5. Invited as a **Session Chair** for 7th National Conference on Recent Advances in Technology and Engineering at T. John Institute of Technology in May 2018
6. **Reviewer** in Journal of Future Generation Computer Systems, Elsevier, 2018.
7. **Reviewer** in Journal of TELKOMNIKA (Telecommunication Computing Electronics and Control), 2018.
8. **Reviewed** papers in Second International Conference on Integrated Intelligence Computing, Communication and Security, ICIIC-2018
9. Invited as a **Session Chair** for 5th International Conference on Pervasive Computing and Networking at AMC Engineering College in April 2017.
10. Invited as a **Session Chair** for International Conference on Engineering, Science, Management and Advances in Research Technology & Engineering at T. John Institute of Technology in May 2016.

Awards/ Achievements/Memberships:

- Received **Outstanding Paper award** at European Conference on Data Mining, 2015, Spain
- Received **Two Best Paper Award** at 6th National Conference on Recent Advances in Technology and Engineering, 2017.
- Won **2nd prize** for the project titled Image Recommendations based on ANOVA cosine Similarity in the National Students' Project Exhibition – 2016 organized by Alpha College of Engineering in association with AICTE.

Invited Talks Delivered:

- “**Hands on Session on Latex Tool**” at faculty development program on “Data Mining – Hands-on on Data Analytics Tools” organized by Department of CSE, AMCEC on 24th January, 2018.

Professional Memberships:

- IEEE Membership, member# 92904353, Bangalore Section
- Life member of ISTE, member# 86261

Workshops /Seminars Organized:

1. Organized 3 days **Entrepreneurship Awareness Camp** in association Entrepreneurship Development Cell, supported by National Science and Technology Entrepreneurship Development Board, DST and Government of India on 14th, 15th and 19th November, 2018 at BNMIT.
2. Organized **Industrial Visit at ISRO** as a part of Entrepreneurship Awareness Camp on 19th November, 2018.
3. Organized Five days **workshop on Internet of Things** in association with NewGen Innovation & Entrepreneurship Development Centre and sponsored by NSTEDB, DST, and Government of India from 9th to 13th July, 2018 at BNMIT.
4. Organized Two days **workshop on Virtual Reality** at BNMIT on 16th and 17th March, 2018 under BNMIT – CSI.
5. Organized **IoT Exhibition Visit**, a new age technology show as a part of India Electronics Week at KTPO Trade Centre, Whitefield Industrial area, Bangalore on 9th February, 2018.
6. Organized three days **workshop on Android Application Development** at BNMIT from 4th to 6th November, 2017 under BNMIT – CSI.
7. Organized Two days **workshop on Webservices, Javascript and JSON** at BNMIT on 4th and 5th November, 2017 under BNMIT – CSI.
8. Organized **Technofest Exhibition visit** as a part of CSIR platinum Jubilee Celebrations on 25th October, 2017

Research Publications:

I. In National & International Journals

International Journals:

1. Sejal D, Shradha G, Venugopal K R, S S Iyengar and L M Patnaik, “Conversion Prediction for Advertisement Recommendation using Expectation Maximization”, International Journal of Computer Science and Information Security, ISSN 1947-5500, vol. 16, no. 4, April 2018.
2. Sejal D, T Ganeshsingh , Venugopal K R, S S Iyengar and L M Patnaik, “ACSIR : ANOVA Cosine Similarity Image Recommendation in Vertical Search”, International Journal of Multimedia Information Retrieval, Springer, ISSN 2192-6611,vol. 6, no. 2, pp. 143-153, 2017.
3. Sejal D, Vijay K M, Venugopal K R, S S Iyengar and L M Patnaik, “Webpage Recommendations based on User Session Graph”, International Journal of Computer Science and Information Security (IJCSIS), ISSN 1947-5500, vol. 15, no. 3, pp. 99-104, March 2017.
4. Sejal D, Abhishek D , Venugopal K R, S S Iyengar, L M Patnaik, “IR_URFS_VF: Image Recommendation with User Relevance Feedback Session and Visual Features in Vertical Image Search”, International Journal of Multimedia Information Retrieval, Springer, ISSN 2192-6611, vol. 5, no. 4, pp. 255-264, 2016.
5. Sejal D, Rashmi V, Venugopal K R, S S Iyengar, L M Patnaik, “Image Recommendation based on keyword Relevance using Absorbing Markov Chain and Image Features” International Journal of Multimedia Information Retrieval, Springer, ISSN 2192-6611, vol. 5, no. 3, pp. 185-199, 2016.
6. Sejal Desai, Kamalakant Tiwari, Dinesh Anvekar, Venugopal K R, S S Iyengar, L M Patnaik , “Webpage Recommendation with Web Navigation Prediction Framework”, International Journal of Knowledge and Web Intelligence, InderScience Publications. ISSN online: 1755-8263, ISSN print: 1755-8255, vol. 5, no. 3, pp. 230-251, 2016.
7. Sejal Desai, Vinuth Chandrasheker, Vijay Mathapati, Venugopal K Rajuk, Sundaraja S Iyengar, Lalit M Patnaik, “User Feedback Session with Clicked and Unclicked Documents for Related Search Recommendation”, IADIS International Journal on Computer Science and Information Systems, ISSN : 1646-3692, vol. 11, no. 1, pp. 81-98, 2016.
8. Sejal D, Shailesh K G, Tejaswi V, Dinesh Anvekar, Venugopal K R, S S Iyengar, and L M Patnaik, “Query Recommendation based on Query Relevance Graph”, Transactions on Machine Learning and Data Mining, ibai-publishing, Germany, ISSN: 1865-6781, ISBN: 879-3-942952-41-5, vol. 9, no. 1, pp. 3-26, 2016.
9. Sejal D, Kamalakant T, Dinesh Anvekar, Venugopal K R, S S Iyengar, L M Patnaik, “Webpage Recommendation by Calculating Average Visiting Time on Webpages”, International Journal of Information Processing, IK International Publishing House Pvt. Ltd. New Delhi, India, ISSN : 0973-8215, vol. 9, no. 3, pp. 117-127, 2015.
10. Shajan Jacob, Qubin Jose, Sadique Ali Khan, Jabez V, Sejal Nimbhorkar, Maria John, “Smart Recipe Application for all your Culinary Needs”, International Journal of Science, Engineering and Technology, ISSN (O): 2348-4098 , ISSN (P): 2395-4752, 2017.
11. Anaswara Elizabeth, Anushree K.U, Lisna C.H, Lalitha. M, Sejal N, “Analysis of Real Time Twitter through Opinion Mining”, International Journal of Science, Engineering and Technology, ISSN (O): 2348-4098, ISSN (P): 2395-4752, 2017.

12. Aishwarya Gowda.H B, 2 Punita. A, 3 Vijayashree M. R, 4 Arun Kumar. N, Sejal N, “A Survey on Monitoring and Controlling Home Devices IoT”, International Journal of Science, Engineering and Technology, ISSN (O): 2348-4098, ISSN (P): 2395-4752, 2017.

II. In National/International Conference Proceedings

International

1. Ramya R S, Darshan M, Naveen Raju, Sejal D, Venugopal K R, S S Iyengar, L M Patnaik, “Efficient Batch Top k Spatial Term Search by Feature Redundancy” In the proceedings of IEEE Region 10 Symposium (TENSYP), page no 723-728, June 2019.
2. R. S Ramya, Ganeshsingh T, Sejal D, Venugopal K R, S S Iyengar and L M Patnaik, “DRDLC: Discovering Relevant Documents Using Latent Dirichlet Allocation and Cosine Similarity”, In the proceedings of 2018 VII International Conference on Network, Communication and Computing, Taiwan, ACM, pp. 87-91, December 14 - 16, 2018 .
3. Sejal D, Ganeshsingh T, Venugopal K R, S S Iyengar and L M Patnaik, “Image Recommendations based on ANOVA Cosine Similarity”, In the Proceedings of Twelfth International Conference on Data Mining and Warehousing, Elsevier, Bangalore, ISSN 1877-0509, pp. 562-567, August 19-21, 2016.
4. Sejal D, Rashmi V, Anvekar Dinesh, Venugopal K R, Iyengar S S and Patnaik L M, "IRAbMC : Image Recommendation with Absorbing Markov Chain”, In the Proceedings of INDICON 2015, New Delhi, ISBN 978-1-4673-7398-3, pp. 1-6, December 17-20, 2015.
5. Sejal D, Shailesh K G, Tejaswi V, Anvekar Dinesh, Venugopal K R, Iyengar S S and Patnaik L M, "Query Click and Text Similarity Graph for Query Suggestions", Machine Learning and Data Mining in Pattern Recognition LNAI series, Springer, 11th International Conference, MLDM 2015 Proceedings, Hamburg, Germany, Series ISSN 0302-9743 ISSN 1611-3349 (electronic), ISBN 978-3-319-21023-0 ISBN 978-3-319-21024-7 (eBook), DOI 10.1007/978-3-319-21024-7, pp. 328-341, July 20–21, 2015.
6. Sejal Desai, Vinuth Chandrasheker, Vijay Mathapati, Venugopal K. Rajuk, Sundaraja S. Iyengar and Lalit M. Patnaik, "RSR : Related Search Recommendation with User Feedback Session ", In the Proceedings of the 9th European Conference on Data Mining 2015, Las Palmas de Gran Canaria, Spain , ISBN: 978-989-8533-39-5, pp. 19-27, July 21-24, 2015.
7. Sejal D, Kamalakant T, Tejaswi V, Anvekar Dinesh, Venugopal K R, Iyengar S S and Patnaik L M, "WNPWR: Web navigation prediction framework for webpage recommendation" , In the Proceedings of IEEE 2nd International Conference on Recent Trends in Information Systems (ReTIS), Kolkata, ISBN : 978-1-4799-8349-0, pp.120-125, July 9-11, 2015.
8. Sejal D, Shailesh K G, Tejaswi V, Dinesh Anvekar, Venugopal K R, S S Iyengar, L M Patnaik, "QRGQR: Query Relevance Graph for Query Recommendation" In the Proceeding of IEEE Region 10 Symposium (TENSYP), Ahmadabad, pp.78-81, May 13-15, 2015.

National

1. Sejal N, “Survey on Efficient Data Storage in RAM Clouds:DRAM”, In the Proceedings of National Conference on Recent Advances, RATE – 2012, TJIT, Bangalore, March 2012.
2. Sejal N, “Privacy Preserving OLAP in Distributed Environment”, In the Proceedings of National Conference on Recent Advances, RATE – 2012, TJIT, Bangalore, March 2012.
3. Sejal N, “Comparison of Pruning Methods for Decision Tree Induction” In the Proceedings of National Conference on Information Processing, AMC, Bangalore, November 2011.

4. Sejal N, "Discover Patterns from Transaction Database whose Frequency Dramatically Changes Over Time", In the Proceedings of National Conference on Information Processing, AMC, Bangalore, March 2010.
5. Sejal N, "Continuous K-mean Monitoring with Low Reporting Cost in Sensor Networks", In the Proceedings of National Conference on Information Processing, AMC, Bangalore, March 2010.
6. Sejal N, "Delay Reduction using Adaptive Application Independent Data Aggregation (AIDA) Approach in Environmental Monitoring based on WSN", In the Proceedings of National Seminar on Wireless Sensor Networks, AMC, November 2009.

Participation in Training courses/Seminars/Workshops

- Two days workshop on deliberation of 3rd to 8th semester 2018 scheme, syllabus at S J B Institute of Technology from 29th to 30th 2019.
- Five days Faculty Development program on Data Analytics at BNMIT from 21st to 25th January, 2019.
- Workshop on Assessments for the Introductory programming course organized by BNMIT in association with BITES on 18th and 19th December, 2018.
- Workshop on New Model Curriculum for PG Course MTech CBCS Detailed Syllabus (2018-19) as per outcome based education format on 6th August, 2018.
- Five Days Faculty Development program on Biomedical Signal Processing at BNMIT from 11th to 15th June, 2018
- Faculty Knowledge Program conducted by IBS Business School on 3rd August, 2016.
- Faculty Development Program on Data Science and Analytics conducted by Cognizant on 22nd June 2016.
- Workshop on Advances in Data Mining at UVCE, September 2013.
- Two days workshop on Role and Significance of Research in Engineering Education conducted by CRESYS Technologies in association with UVCE, August 2013.
- Three days National Level Workshop on Machine Intelligence and Imaging Technologies at BIT, August 2013.
- Three days Workshop on Knowledge Management and Data Analysis for Real World Applications at R.V. C.E., July 2013.
- Three days workshop on Network Simulator-2 conducted by CRESYS Technologies, May 2013.
- Two days Workshop on Wireless Technology and Simulation at AMC, December 2012.
- Android Application Development workshop as a part of NextGen Learning Courses, October, 2012.

Personal Details:

- **Date of Birth:** 28-07-1975
- **Sex:** Female