


Name of Teaching Staff	:	Dr. Kiran Bhowmick	
Designation	:	Assistant Professor (Selection Grade)	
Department	:	Computer Engineering	
Date of Joining the Institution	:	25 th July 2006	
Email ID	:	Kiran.bhowmick@djsce.ac.in	
Office Contact	:	Office Contact	
Google Scholar Link	:	https://scholar.google.com/citations?user=aIleILYAAAAJ&hl=en	
Researchgate Link:	:	https://www.researchgate.net/profile/Kiran-Bhowmick	
ORCID	:		
Publons Researcher ID	:	https://publons.com/researcher/4547450/kiran-bhowmick/	
Qualifications with Class / Grade	:	<ol style="list-style-type: none"> 1. Ph.D (Computer), DJSCE, Mumbai University, 2021 2. M.Tech (Computer Engineering), MPSTME, NMIMS University, April 2008, 3.50 GPA 3. B.E. (Computer Science & Engineering.), Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, 1st Class with distinction., 67.6%, May, 1999 	
Total Experience in Years	:	<p>Teaching: 19 Years</p> <ul style="list-style-type: none"> • Assistant Professor, D. J. Sanghvi College of Engineering, from 25th July 2006 till date • Lecturer (regular), Computer Department, Lokmanya Tilak College of Engineering, Navi Mumbai, 31st May 2003 to 24th July 2006 <p>Industry: 02 Years</p> <ul style="list-style-type: none"> • Web Programmer, Mega e-Services Pvt. Ltd., Mumbai from 29th May 2000 to 24th Dec 2001 • Web Programmer + Faculty in CTECH Computer Services, Pune from 1st Jan 2000 to 5th May 2000. 	
Papers Published in Journal:	:	<p>Papers presented in International Journal: 20</p> <ol style="list-style-type: none"> 1. “Word Sense Disambiguation”, International Journal of Engineering Science Invention (IJESI); ISSN 2319-6726; Vol-2; Issue 10, Oct 2013 2. “SPAM Filtering Using Statistical Natural Language Processing”, at International Journal of Computer Science and Engineering (IJCSE); ISSN 2278-9960; Vol-2, Issue-5, Nov2013, Impact Factor:2.3176 3. 3. “Neural Network Applications in Stock Market Predictions”, at International Journal of Computer Science and Engineering (IJCSE); ISSN 2278-9960; Vol-2, Issue-5, Nov-2013, Impact Factor:2.3176 4. “Optimization of Travelling Salesman Problem for an ERP System” , at International Journal of Computer Science and Engineering (IJCSE); ISSN 2278-9960; Vol-2, Issue-5, Nov-2013, Impact Factor:2.3176 5. “Virus Detection using Artificial Neural Networks”, at Journal: IJCA, December 8, 2013 	

6. "A survey on suicide prediction using social media content", at Journal: IJIACS, ISSN (2347 – 8616, 2347 – 8527, 2348-117X),
7. Presented and published a paper "Hand Written Digit Recognition Using Logistic Regression", IJGTI, Volume 4, Issue 1, March 2015.
8. Kohonen's Self-Organizing Feature Maps and Linear Vector Quantization: A Comparison
9. IJCA July 18, 2015 ISBN : 973-93-80888-05-2
10. A Survey of Opinion Mining and Sentiment Analysis, International Journal of Computer Applications (0975 – 8887), Volume 131 – No.1, December 2015
11. Handling of Cost Sensitive Data Sets, International Journal of Innovations & Advancement in Computer Science IJIACS ISSN 2347 – 8616 Volume 4, Issue 11 November 2015
12. Applications of Data Mining in Fraud Detection, IJCSE, ISSN 2347-2693 Volume-03 , Issue-11
13. Evaluating Effectiveness of Classification Algorithms on Personality Prediction Dataset, Volume. 4 - Issue. 10, October - 2015, e-ISSN: 2278-0181, DOI: <http://dx.doi.org/10.17577/IJERTV4IS100463>
14. A Proposed Solution for Sentiment Analysis on Tweets to Extract Emotions from Ambiguous Statements, Author(s): Dyuti Shukla, Mihika Shah, Perna Parmeshwaran, Kiran Bhowmick, International Journal of Engineering Research & Technology, Volume/Issue: Volume. 4 - Issue. 11, November – 2015, e-ISSN: 2278-0181, DOI: <http://dx.doi.org/10.17577/IJERTV4IS110185>
15. Machine Learning for Classification of Imbalanced Big Data, IJRITCC, ISSN 2321-8169 Volume 3 Issue 10 on 8 November, 2015
16. Proposed Model for Prediction and Visualization of User Tendency towards Purchases using Clickstream Data, International Journal of Innovations & Advancement in Computer Science, IJIACS, ISSN 2347 – 8616, Volume 4, Issue 11, November 2015
17. Adaptive Sorting Using Machine Learning, (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 7 (2) , 2016, 490-493, ISSN:0975-9646, Somshubra Majumdar, Ishaan Jain, Kunal Kukreja
18. Computational Models of Episodic Memory: A Comparative Study, IJIACS'16, ISSN 2347 – 8616 Volume 5, Issue 5 May 2016, Kiran Bhowmick, Anushree Mehta.
19. "A Comprehensive Study and Analysis of Semi Supervised Learning Techniques", Kiran Bhowmick, Meera Narvekar, International Journal of Engineering Research & Technology (IJERT), Volume 8, Issue 11, Nov-2019, ISSN 2278-0181
20. "preCDACI: Prequential learning based Concept drift Detection and Adaptation for Classification of Imbalanced data streams", Kiran

	<p>Bhowmick, Meera Narvekar (2020) in <u>International Journal of Advanced Science and Technology</u>, 29(3), 14275 - 14283</p> <p>21. “A Semi-Supervised clustering based classification model for classifying imbalanced data streams in the presence of scarcely labeled data”, Bhowmick, K. and Narvekar, M. (2019), International Journal of Business Intelligence and Data Mining, Inderscience Journal. Accepted and Scheduled for publication. https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijbidm DOI: 10.1504/IJBIDM.2022.10034300</p> <p>Papers presented in National Journal: 03</p> <ol style="list-style-type: none"> 1. Avneet Oberoi, Namrata Shah, Shraddha Vishwanathan, Kiran Bhowmick, “ Intelligent Deep Web Crawler, National Journal Technofocus, Vol 3, Issue 1, DJSCOE 2. Jay Shah, Aseem Chopra, Nikit Faria, Kiran Bhowmick, “ARMO Association Rule Mining using Ontology”, National Journal Technofocus, Vol 3, Issue 2, DJSCOE 3. Yash Sangani, Kunal Desai, Yash Doshi, Kiran Bhowmick, “A distributed approach for Count Distribution Algorithm”, National Journal Technofocus, Vol 3, Issue 3, DJSCOE
Papers Presented in Conferences	<p>Papers presented in International Conference: 17</p> <ol style="list-style-type: none"> 1. “Review of Duckworth Lewis Method”, DJ ICACTA 2015 Conference, Elsevier, Procedia Computer Science, Volume 45, Pages 95-100 2. Kiran Bhowmick, Krishna Gadia, “Parallel text mining in multicore systems using FPTree algorithm”, DJ ICACTA 2015 Conference, Elsevier, Procedia Computer Science, Volume 45, Pages 111-117 3. A Map Reduce Based Approach for Classification, ICIIIECS’16 3rd International Conference on Innovations in Information, Embedded and Communication Systems, 17th & 18th March, 2016, IEEE 4. An Ensemble Classifier, ICIIIECS’16 3rd International Conference on Innovations in Information, Embedded and Communication Systems, 17th & 18th March, 2016, IEEE sponsored, Pratyusha Shukla 5. A. Haldankar and K. Bhowmick, "A Cost Sensitive Classifier for Big Data" in IEEE sponsored International Conference on Advances in Electronics, Communication & Computer Technology (ICAECCT-16), 2-3 December 2016 6. A Map Reduce Based Approach for Classification, ICIIIECS’17 Karpagam COE, Coimbatore, IEEE, ISBN- 978-1-5090-3294-5 7. Kiran Bhowmick, Meera Narvekar, “Trajectory Öutlier Detection for Traffic Events: A Survey”, Springer 2017, 2nd International Conference on Intelligent Computing and Communication ICICC-2017, 2-4th August 2017

8. Kiran Bhowmick, Meera Narvekar, "Learning to classify non-stationary imbalanced data streams – issues and challenges", IEEE 2018, in proceedings 2nd International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC-2018) , 28th - 29th January 2018
9. "HECMI: Hybrid Ensemble technique for Classification of Multiclass Imbalanced data", Kiran Bhowmick, Utsav B. Shah, Medha Y. Shah, Pratik A. Parekh, Meera Narvekar , 5th International Conference on "Information Systems Design and Intelligent Applications" held during 19th-21st July, 2018 organized by Université des Mascareignes, Mauritius, Springer
10. "CDACI: Concept Drift Detection and Adaptation to Classify Imbalanced Data streams", Kiran Bhowmick, Meera Narvekar, Aqsa Bhimdiwala, Chandrasekhar Raman, International Conference on Data Science and Analytics, Symbiosis University, Pune, 1st Dec 2018 – 2nd Dec 2018, IEEE
11. "Comparative Analysis of Hand Gesture Recognition Techniques: A Review", 2nd International Conference on Advanced Computing Technologies and Applications (ICACTA 2020), Springer
12. "Pneumonia Detection Using X-ray Images and Deep Learning", C. Khamkar (B) · M. Shah · S. Kalyani · Kiran Bhowmick, Information and Communication Technology for Competitive Strategies (ICTCS 2020), Springer Nature Singapore, https://doi.org/10.1007/978-981-16-0882-7_10
13. H. Jhaveri, D. Sheth and K. Bhowmick, "Autoencoder Embedding, Segmentation and Classification of Apparel Images using a Deep ConvNet Approach," 2020 4th International Conference on Electronics, Communication and Aerospace Technology (ICECA), 2020, pp. 974-979, doi: 10.1109/ICECA49313.2020.9297621.
14. Shah P., Adurkar R., Desai S., Kadakia S., Bhowmick K. (2021) COVID-19 Database Management: A Non-relational Approach (NoSQL and XML). In: Hemanth J., Bestak R., Chen J.IZ. (eds) Intelligent Data Communication Technologies and Internet of Things. Lecture Notes on Data Engineering and Communications Technologies, vol 57. Springer, Singapore. https://doi.org/10.1007/978-981-15-9509-7_40
15. Data-driven Preprocessing Techniques for Early Diagnosis of Diabetes, Heart and Liver Diseases” in the 2021 Fourth IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT 2021) held at Velalar College of Engineering & Technology, Erode, Tamil Nadu, India during 15 - 17, September 2021.
16. "Topic-Modelling based approach for Clustering Legal Documents”, Aayush Halgekar, Ashish Rao, Dhruvi Khankhoje, Ishaan Khetan, Kiran Bhowmick, 6th International Conference on Information and

		<p>Communication Technology for Competitive Strategies, Dec 17-18, 2021, Springer</p> <p>17. “Designing an ensemble classifier for classifying multi label data”, Shriya Salunkhe, Kiran Bhowmick, 6th International Conference on Information and Communication Technology for Competitive Strategies, Dec 17-18, 2021, Springer</p> <p>Papers presented in National Conference: 02</p> <p>1. Kiran Bhowmick, M.V. Deshpande, S.G. Bhirud, “Software Estimation Tool Using AI Technologies”, National Conference of Information and Communication Technology NCICT 2007, NMIMS University.</p> <p>2. Kiran Bhowmick, M.V. Deshpande, S.G. Bhirud, “A software estimation tool combining Algorithmic and Non-algorithmic models”, National Conference of Information and Communication Technology NCICT 2008, NMIMS University.</p>
Area of Specialization		Data Mining, Soft Computing, Discrete Mathematics, Software Engineering,
PhD Guide ? Give field & University	:	Field: University:
PhDs / Projects Guided	:	PhDs : Projects at Masters level: 03
Books Published / IPRs / Patents	:	Books (Editors for conference Proceedings on Springer)
Professional Memberships	:	ISTE Life member
Grants fetched	:	Minor Research Grant (University of Mumbai) Project: Indian Sign Language Recognition and Sentence Formation Grant: Rs. 20000/-

Interaction with Professional Institutions	: Guest Lectures: Other Achievements and Responsibilities:	Reviewer: 1. ACM Computing reviews 2. Artificial Intelligence review, Springer Nature
Subjects Taught	<p>UG Level: C Programming • Object Oriented Programming in C++ • Discrete Structures & Graph Theory • Theoretical Computer Science (TCS) • Object Oriented Analysis & Design • Web Technology • Distributed Computing • Management Information Systems • Data Warehousing and Mining • Information Technology for Management of Enterprise • Software Engineering • Soft Computing • Artificial Intelligence and Soft Computing, Artificial Intelligence</p> <p>PG Level: Advanced Algorithms and Complexity (PG) • Soft Computing (PG) • Computational Intelligence (PG) • Data Science (PG)</p>	
Projects Guided	: UG Level: 35 PG Level: 04	<ol style="list-style-type: none"> 1. Designing an ensemble classifier for classifying multi label data (2020) 2. A cost sensitive classifier for Big Data (2016) 3. To improve classification of Imbalanced datasets (2016) 4. Trajectory clustering for Large Datasets (currently ongoing)
Recommended Students for Higher Education	<u>Name of the Student</u> 50+ students	<u>University/Industry</u> University in USA Purdue, USC, UMass, Boston, NYU, UC Davis, Illinois, Northeastern, John Hopkins, Columbia, UCI, Buffalo, UCLA, San Diego, Stony Brook, Rochester University in UK University in Canada Toronto, Ottawa, Waterloo etc

<p>Institute/Department Responsibility handled:</p>	<p>College level responsibilities:</p> <ol style="list-style-type: none"> 1. NBA Criteria 5 college level co-coordinator 2. NAAC Criteria 3 college level co-incharge 3. Admission Committee member till date 4. Library Committee member till 2020 <p>Department level responsibilities:</p> <ol style="list-style-type: none"> 5. NBA Program Coordinator for Computer Department 6. Internal audit incharge 7. PAC incharge 8. Lab-Incharge for ACWT lab in Computer Department 9. Department NPTEL coordinator 10. Academic bulletin incharge till 2018 11. Project Co-ordinator since 2011 till 2018 12. Placement Coordinator till 2016 13. Department ICPC incharge till 2018
<p>Pedagogy Development</p>	<ol style="list-style-type: none"> 1. Direct Instruction: Includes didactic teaching, drill and practice (for subjects like Discrete Mathematics, Soft Computing). 2. Indirect Instruction: includes case study based teaching (Software Engineering, Management Information System etc 3. Independent Study: includes giving Assignments, independent mini projects in groups and giving research projects