SHEETAL JAGTAP

Location Preference: Mumbai

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Aspiration

- I am seeking a position as a Research Associate in the industry to utilize my expertise in Power BI, signal processing and my research experience as a PhD graduate.
- I am seeking a position as a Business Intelligence Analyst, in the industry to leverage my teaching experience and deep knowledge of Business Intelligence.
- I am looking for an opportunity to apply my skills in industry for practical and impactful use.

Profile Summary

- 19+ years of teaching experience in reputed engineering institutes.
- Curriculum development for Mumbai University in the subjects like Integrated Circuits, Computer Networks, Advanced Networking Technologies, Machine Learning, Business Intelligence.
- Sound knowledge of telecommunication and computer network engineering fundamentals.
- Understanding of Object-oriented concepts and Programming languages like MATLAB, Simulink, NS2, MS Office, Robotic Process Automation by UI path etc.
- Strong teaching grip over fundamental subjects like Computer Networking, Linear Integrated Circuit, Basics of Communication, Machine Learning and Business Intelligence etc.
- 19 years of experience in managing undergraduate level projects.
- Knowledge of the latest concepts like Ethernet, Wi-Fi, Radar Communication, MATLAB, UiPath(RPA), PowerBI

Core Competencies

Public Speaking	Time Management
Interpersonal Communication	Documentation & Record Keeping
Creative Teaching Skills	Excellent Presentation
Critical Thinking	Problem Solving & Troubleshooting
Techno-Commercial Operations	Team Management & Leadership

IT Skills

- MATLAB, PSpice, NS2, RPA, Power-BI

Education

- PhD (Electronics and Telecommunication Engineering) from Thadomal Shahani Engineering College, Bandra, Mumbai University (Date of Admission: 22-3-2019).

  Subject: Radar Signal Processing using MIMO completed on Jan-2025.

- M.E. (Electronics and Telecommunication Engineering) from Terna Engineering College, Nerul, in 2011 with First Class.

- B.E. (Electronics Engineering) from Pravara Rural Engineering College, Loni, Dist.Ahmednagar in 2004, with first class.

Career Timeline

Nov'03 – June 04 — Pravara Rural Engineering College, Loni, Ahmednagar

Dec'04- May'05 — L & T Institute of Technology, Powai, Mumbai

Since May 2006 - till date — K.J. Somaiya Institute of Technology (KJSIT), Sion, Mumbai

Notable Accomplishments Across The Career

Conference Publications:

- A. Maheswari, V. Patel, N. Moghe and S. Jagtap, "Exploring the implementation of a Blockchain-Based Election Conducting and Management System (BCECMS) to improve election security and transparency," 2023 6th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2023, pp. 84-89, doi: 10.1109/ICAST59062.2023.10455039.

- N. Shukla, E. Sanghavi, R. Patil and S. Jagtap, "PARICHAI - Personal Aadhar Referenced Identification of Missing Children and Alzheimer patients of India," 2023 6th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2023, pp. 622-626, doi: 10.1109/ICAST59062.2023.10455065.

- S. G. Jagtap and A. Kunte, "Procedures for Super-resolution Extraction of nearby Targets by Radar with Multiple Input and Multiple Output," 2022 5th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2022, pp. 622-625, doi: 10.1109/ICAST55766.2022.10039638.

- Jagtap S.G., and Kunte, A., "Classification and Trends in Adaptive Beamforming Techniques of MIMO Radar," in 2021 International Conference on Communication Information and Computing Technology (ICCICT), pp.1-6, June 2021, Electronic ISBN: 978-1-6654-0430-3, Print on Demand(PoD) ISBN: 978-1-6654-4716-4

- S. Singh, O. Manchekar, A. Patwardhan, U. Rote, S. Jagtap and H. Chavan, "Tool for Evaluating Subjective Answers using AI (TESA)," 2021 International Conference on Communication information and Computing Technology (ICCICT), Mumbai, India, 2021, pp. 1-6, doi: 10.1109/ICCICT50803.2021.9510119.

- Gondaliya, Yash, Vishaka Srinivasan, Neha Malvia, Manav Harbada, and Sheetal Jagtap. "Voiceless Speech Recognition System." In Proceedings of the 4th International Conference on Advances in Science & Technology (ICAST 2021). 2021.

- Singh, Shreya, Omkar Manchekar, Ambar Patwardhan, Uday Rote, Sheetal Jagtap, and Dr Hariram Chavan. "Computer application for assessing subjective answers using AI." In Proceedings of the 4th International Conference on Advances in Science & Technology (ICAST 2021), 2021.

- S. G. Jagtap and M. K. Bivalkar, "Optimized method for compressive sensing in mobile environment," 2016 Conference on Emerging Devices and Smart Systems (ICEDSS), Namakkal, India, 2016, pp. 83-87, doi: 10.1109/ICEDSS.2016.7587775.

- H. Z. Wala, T. P. Nevagi and S. G. Jagtap, "Revolutionizing Healthcare: Early Disease Detection through Retinal Imaging and AI-Driven Approaches," 2023 6th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2023, pp. 23-28, doi: 10.1109/ICAST59062.2023.10455046

- " Low cost Self Assistive wheelchair" in IJCIR at the international conference on"Advances in science and Technology" on 6th -7th April 2018 with ISSN 0973-1873 Vol.14, No.1 (2018)

- "Bomb Disposal Robot" in ACST at the international conference on"Advances in science and Technology" on 6th -7th April 2018 with ISSN 0973-6107 Vol.11, No. 1, (2018)

- Dhake, T. P., R. D. Patane, and S. Jagtap. "Dynamic call management for congestion control in cellular networks." In Proceedings of the International Conference & Workshop on Emerging Trends in Technology, pp. 946-947. 2011.

- "Modelling Latency for 3G Mobile Network with jitter" international paper presentation in Thakur college of Engineering & Technology, Kandivali on 25-26 Feb 11 ICWET11, Volume II, ISBN:978-1-4503-0449-8

- "Integration Of Pricing with Congestion Control for Cellular Network" National paper presentation in Saraswati College of Engineering ,Kharghar on 21-22 Dec 2009

- "Call Management for Congestion Control in Cellular Networks" National paper presentation in Vidyalankar Institute of Technology, Wadala on 5-6 Oct 2009

- "Traffic monitoring and its application in 3G mobile Network" National paper presentation in Vidyalankar Institute of Technology, Wadala on 5-6 Oct 2009

- " A new Model for service and Application Convergence in B3G/4G" National paper presentation in Agnel Polytechnic Vashi with Indian Institute of Industrial Engineering(IIIE) on 30-31 Oct 2009

- "Modelling Latency for 3G Mobile Network" International paper presentation in SES College of Engineering, navalnagar on 1-2 April 2010.

Journal Publications:

- Jagtap, Sheetal G., and Ashwini S. Kunte. "Novel approaches for target parameter extraction with eigenvalue thresholding and Dolph–Chebyshev windowing in multiple‑input multiple‑output (MIMO) radar system" International Journal of Communication Systems (2024): e5912, Wiley publications, 11 July 2024.
- Jagtap, S.G. and Kunte, A.S., "Comparison of Conformal Array and Uniform Rectangular Array with 2-D MUSIC Algorithm for Estimation of Direction of Arrival," International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), vol. 3, no. 13, pp. 197–204, May 2023. ISSN (Online) 2581-9429. DOI: 10.48175/IJARSCT-10744
- Jagtap, S.G. and Kunte, A.S., "Improved Direction of Arrival Estimation using Multiple Signal Classification (MUSIC) Algorithm with Decomposition and Normalization," International Journal on Recent and Innovation Trends in Computing and Communication, vol. 11, no. 7s, pp. 263–268, Jul. 2023. ISSN: 2321-8169, DOI: 10.17762/ijritcc.v11i7s.6998/IJRITCC.
  DOI: https://doi.org/10.1002/dac.5912
- Parekh, Vraj, Harsh Mange, Preksha Shah, Siddharth Tanna, and Sheetal Jagtap. "Detection of Anomalies in Time Series Data." (2023).
- Bhalodi, Tanmay, Nikhil Bhujbal, Karan Doshi, Rahul Goregaonkar, and Sheetal Jagtap. "Environmental Friendly Solar Grass Cutter." International Journal of Research in Engineering, Science and Management 3, no. 7 (2020): 177-180.
- "Automatic Wheelchair with Object Detection and Avoidance Using IR Sensor" IJRAR - International Journal of Research and Analytical Reviews, IETE, 2021.

Patent:
- Patent published for "SMART ELECTRIC LOCOMOTIVE WHEELCHAIR FOR DISABLED" with Application no. 201921037561. Date of Publication is 11th Oct 2019.

Live Projects Handled:

- "Mansik Shakti: An App for Self-Assessment Using Psychometric Tests," project is mentored by me which was started in June 2023 and completed in May 2004. This app was launched by our Honorable Governor of Maharashtra - Shri Ramesh Bais, on 9.05.2024 at Raj Bhavan, Mumbai. This app was converted to "Relief" app and launched in Constitution Club, Delhi on 18th March 2025.

Minor Funding Research Proposals Submitted and completed:

- Received Minor research grant for " Automatic Solar Grass cutter" with project no.1053 with amount 35000/- in May 2020.

Responsibilities handled:

Global Level:

1. Reviewer for Transactions on Geoscience and Remote Sensing in 2024.
2. Reviewer for IET Radar, Sonar & Navigation in Nov 2024.
3. Reviewer for IET Radar, Sonar & Navigation in Sept 2023.
4. Track Coordinator for the 4th International Conference on Advances in Science and Technology (ICAST-2021) organized by K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai in association with University of Mumbai and The Institution of Engineering and Technology (IET) on 7th May,2021.
5. IETE and S4DS membership

Institute Level:

1. Member-AURA Committee
2. Member-IQAC Committee (NAAC- Criteria 7 Coordinator)
3. Member-Academic Monitoring Committee
4. Member-IET
5. Organizing member and internal judge in National Level poster cum project competition-KJSIEIT-IET-INTECH 23 and INTECH 24.
6. Judge for "KJSIEIT-IET INTECH 2K22" National Level Project Competition
7. S4DS Coordinator
8. Certified coach of AI for Youth Program from May 29, 2024.

Department Level:

1. Academic Audit Coordinator
2. Department Newsletter In-charge
3. DQC Member
4. S4DS Coordinator
5. Coursera Incharge of ETRX department

Activities Organized:

- Coordinated S4DS event of Hackathon "Knowcode 2.0" from 24th Jan to 26th Jan 2025.
- Organized Power BI workshop on 28th October , 2024.
- Worked for NAAC AQAR -Criteria 7 in Dec 2022.
- Organized a guest lecture on "Data Science: The oil of the 21st century" on 27th August 2022. Resource person was Mrs. Namrata Shetty-Anderson.
- Worked as a INTECH project competition coordinator on 16th April 2022.
- Organized Hackathon on 19th Feb 2022.
- Conducted a LATEX workshop on 20 October 2021 for SY,TY and LY students.

- Set the syllabus for ML,ANT,CCN, LIC, Project-Sem-VII in Dec. 2021.
- Working for INTECH project competition which was held on 17th April 2021.I was panel coordinator for project competition.
- Working as academic audit coordinator for audit on 24th April 2021.
- As a spoken tutorial coordinator from 5th April to 17th April 2021 for Arduino course for SE students.
- Has organized a guest lecture of Mr.Rajesh Bhat, Regional Head of IET mumbai Local Network, for SE students on 30th September, 2016 on IOT subject.
- Worked as a coordinator from 5th to 10th April 2021 for Latex courses for TY students.
- Worked for NICE 2019 as technical committee head on 5th october 2019.
- Organized visit to IIT-Mumbai SAMEER on 28th Feb 2020 for TE ETRX students.Total 33 students visited this place.
- Organized an Expert Session of Dr. Sasikumar M (Executive Director – CDAC, Mumbai) on "Unlocking Innovations through Artificial Intelligence" for AI-enthusiasts, on 11th feb 2020 at 8:45 to 10:45am for TE ETRX students.
- Attended and coordinated Spoken Tutorial on Arduino from 29th June to 24th July, 2021.
- Arranged one guest lecture on :Network Security and Blockchain" on 28 Feb 2018.
- worked as an organizing committee member of the International Conference on Advances in Science and Technology on 6th and 7th april 2018.
- Worked as a Criterion III coordinator for NAAC which was held on 25th September 2017.
- Organized a guest lecture of Mr.Rajesh Bhat, Regional Head of IET mumbai Local Network, for SE students on 30th September, 2016 on IOT subject.
- Organizing member for NICE competition which was held on 2nd september 2017.
- Have worked as a departmental IET co-ordinator for NICE 2K16 on 3rd September 2016.
- coordinated two days workshop on " PCB Designing " on 27 August and 3rd September 2016 conducted by Mr.Shital Chawre and Ms.Neeta Patade of Prolific System Pvt. Ltd. Total 23 students have participated.
- Has coordinated a two day workshop in" Projects based on Android Apps" on 4th-5th July 2016.
- Received certificate of Appreciation from Universal college of Engg, for encouraging my project group to participate in national level project competition on in 2016
- Has organized " NS2: A Helicopter View" a five days workshop on 5th Nov-9th Nov 2012 in KJSIEIT college

Training Programs/Workshops attended:
- Attended a 5 days course on Fundamentals of GIS and RS from July 1 to July 5 , 2024 at KJSIT.
- Successful completion of One Week Online Short Term Course on "Recent Trends in Blockchain Enabled Internet of Things" organized by the Department of Information Technology from December 04-08, 2023.
- Attended a one week national level Capacity building program on " Cybersecurity and Forensic" from 19th June to 24th June 2023.

- One week Faculty Development Program on "Quantum Computing" attended on December 12-17, 2022.
- "AZ-900: Microsoft Azure Fundamentals" training done on Training Date: 26th May 2023, Time: 9:30 AM - 5:30 PM by Microsoft.
- "Understanding SQL SERVER and its exposure on Azure" Training date: 29th May 2023, Time: 9:30 AM - 5:30 PM
- "Maximizing AI Potential with Azure Solutions and ChatGPT: A Comprehensive Overview" training done on 19th May 2023.
- Attended FDP on "Natural Language Processing" from 7th Feb to 18th Feb 2022.
- Attended a STTP on " Machine Learning and AI in Electronics" from 6th Jan to 12th Jan 2022.
- Attended Two-Day workshop on 'Improving Research & Performance Outcomes' at Elsevier's Zoom Webinar, on Thursday 19 August, 2021
- Completed FDP on Strategies for Sustaining Quality Culture in Autonomous Colleges" on 21-25 June 2021
- Attended one week FDP on "Principles of Modern Radar" from 3rd June-7th June 2020.
- Attended FDP on " Moodle Learning Management System" on 26th -30th May 2020
- Attended a workshop on National Workshop on "Fine Tuning Research Planning using Elsevier Tools: Sciencedirect, Scopus and Mendeley " on 25th April 2020.
- Attended FDP for one week FDP on "Machine Learning for Image, Audio, Video Analysis & IoT" from 9th Dec. to 14th Dec. 2019.
- Completed a 2 day workshop on "Network Simulation on NS2" on 1st and 2nd March 2019 .
- STTP attended: "Recent Trends and Developments in Modern Antennas, RF and Microwave System" from 1st July - 6th July 2019.
- Attended two days workshop on " Practical Electromagnetics for Modern Antennas, RF and Microwave Designs" on 9th and 10th March 2018.
- Attended one week STTP on "R programming, Python and Perl" on 2nd Jan to 7th Jan 2018.
- Received certificate of Appreciation from Universal College of Engg, for encouraging my project group to participate in national level project competition in 2016.
- Participated in a workshop on "NAAC - Process Criteria and Audit" on 25th April - 29th April 2016.
- Participated in orientation program in subject "ANT" on 18th January 2016.
- Participated in NPTEL Awareness Workshop on 8th January 2016.
- Participated in a two day workshop on " Wireless Networks" in PVPP's COE on 18th-19th Dec. 2015.
- Participated in the National Symposium on "Evangelizing Internet of Things" on 5th October 2015.
- Attended a one day workshop on "Computer Communication Network Practical" in SPIT, Andheri on 7th Feb 2015.
- Attended 5 days FDP on "Embedded System Design using ARM Cortex M3" in KJSIEIT on 29-Dec to 2 Jan 2015.

- Attended 5 days STTP on "Cloud Computing and Big Data Analytics" on 10-14th Nov 2014.
- Attended "VLSI: Basics through Advanced and Recent Trends" 4 days ISTE approved workshop in KJSIEIT on 10th Jan 2011 to 14th Jan 2011.
- Attended "Best Practices in Network Simulator-2" 4 days workshop on 27th-30th Dec 2010.
- ISTE approved a 5 day workshop on "Wireless communication and Networking" on 13th July 2009-17th July 2009.
- AICTE-ISTE approved 5 Days training on " Effective Teaching -Approach and Methods" on 23rd-27th June 2008.
- Attended ISTE approved two week STTP on " Image, Audio and Video Data Compression" on 7th-18th Jan 2008.

Courses Done:
- Done NPTEL course on " Estimation for Wireless Communications –MIMO/ OFDM Cellular and Sensor Networks" in Jan-April 2016
- Done NPTEL course on "Fundamentals of MIMO Wireless communication" in July-September 2016
- Done a course offered by IITBombayX, on "Educational Technology for Engineering Teachers" in Jan-March 2016.
- Done a 4 months course from IIT Mumbai, under continuing education program, on subject"Radar System" from Jan 2018 to April 2018.

Personal Details

Date of Birth: 4th December 1980 | **Languages Known:** English, Hindi, Marathi i
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