

Dr. Kundalik Shende

Assistant Professor,

Department of Statistics,

M.E.S.'s Abasaheb Garware College (Autonomous), Pune-04, Indian (MS).

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Education

Degree

- Ph.D. (Statistics), Shivaji University, Kolhapur, India, January-2026
Thesis title: *On Robust Estimation and Model Selection in Regression*
Guide: Prof. (Dr.) D. N. Kashid
- M.Sc. (Statistics), Shivaji University, Kolhapur, India, June-2013 (Overall Grade: A⁺)
- B.Sc. (Statistics), Shivaji University, Kolhapur, India, May-2011 (Overall Grade: A⁺)

Other Qualification

- Graduate Aptitude Test in Engineering (GATE), Indian Institute of Science (IISc), and Indian Institutes of Technology (IIT), India
- Maharashtra State Eligibility Test (MH-SET), Savitribai Phule Pune University (SPPU), Pune, India
- CT-3: Probability and Mathematical Statistics (CS1), Institute of Actuaries of India (IAI), India

Experience

- Assistant Professor, Department of Statistics, M.E.S.'s Abasaheb Garware College (Autonomous), Pune, India (MS) 2019 – Present
- Assistant Professor, Department of Statistics, Yashavantrao Chavan Institute of Science (YCIS), Satara, India (MS) 2017 – 2018
- Research Assistant, Department of Statistics, Shivaji University, Kolhapur, India (MS) 2013 – 2014

Skills

- Programming Languages: Python, C, C++
- Databases: SQL, MySQL, NoSQL, MongoDB
- Data Visualization and Business Intelligence: Tableau, Power BI
- Statistical Software: R, SAS, SPSS, MINITAB, MATLAB, SYSTAT, STATA, STATISTICA, Alteryx, Stat-Ease 360
- Cloud Platforms: AWS, GCP, Azure, Posit Cloud
- Productivity and Publishing Tools: Microsoft Office, L^AT_EX
- Professional Competencies: Academic Research, Teaching, Corporate Training, Statistical Consultation
- Research Interest: Regression Analysis, Robust Statistics, Predictive Modeling, Deep Learning, Data Science

Research

Publications

- Rodge, S. P., **Shende, K. S.**, and Patil, N. P. (2023). Polyhydroxyalkanoate biosynthesis and optimisation of thermophilic *Geobacillus stearothermophilus* strain K4E3_SPR_NPP, *Extremophiles*, 27(2), 13. DOI: 10.1007/s00792-023-01300-8.
- Shende, K. S.**, and Kashid, D. N. (2021). High leverage points and vertical outliers resistant model selection in regression. *Hacettepe Journal of Mathematics and Statistics*, 50(6), 1773-1792. DOI: 10.15672/hujms.842589.
- Shende, K. S.**, and Kashid, D. N. (2019). Least absolute deviation estimator based consistent model selection in regression. *Communications for Statistical Applications and Method*, 26(3), 273-293. DOI: 10.29220/CSAM.2019.26.3.273.

Worked as a referee for: The Journal of Supercomputing

Awards, Achievements and Certificates

Awards and Achievements

- Awarded Golden Jubilee Research Fellowship (GJRF), Shivaji University, Kolhapur, India 2016
- Selected as a Statistical Trainee, Sampling and Official Statistics Unit (SOSU), Indian Statistical Institute (ISI), Kolkata, India 2013
- Selected for a one-week training programme on “Official Statistics”, National Academy of Statistical Administration (NASA), Govt. of India, Delhi, India 2013
- Stood second in order of merit of B.Sc. (Statistics) examination, Shivaji University, Kolhapur, India 2011

Certifications

- R-Software, Yashwantrao Chavan Institute of Science (YCIS), Satara, India 2010
- Maharashtra State Certificate in Information Technology (MS-CIT), Maharashtra Knowledge Corporation Limited (MKCL), Department of Higher and Technical Education, Govt. of Maharashtra, India 2006

Leadership and Teamwork Experience

Membership of Associations

- Life Member, Indian Society for Probability and Statistics (ISPS)
- Student Member, Institute of Actuaries of India (IAI)

Government-commissioned duties

- Presiding Officer for Lok Sabha Election-2024, Election Commission of India
- Field Trainer in the Pune corporation area for Census-2021, Govt. of India
- Venue Officer for the MAH CET- 2021 examination, State Common Entrance Test Cell, Govt. of Maharashtra

University level duties

- Chairman, T.Y.B.A. (Statistics, Sem-V & VI) question paper setting panel, Savitribai Phule Pune University (SPPU), Pune, India
- Member, Extended Board of Studies (BOS) for Statistics and Mathematics, Savitribai Phule Pune University (SPPU), Pune, India
- Member, B. Sc. (Statistics) and B.A. (Statistics) question paper setting and evaluation panel, Savitribai Phule Pune University (SPPU), Pune, India

College level duties

- In-charge, Students Feedback Analysis 2021-2026
- In-charge, Additional Credits Committee (Science, UG) 2021-2025
- Member, BOS for Statistics and Additional credits 2022-2026
- Member, F.Y.B.Sc. Admission Committee 2020-2024 & 2025-2026
- Member, F.Y.B.Sc. Class Guardian 2022-2023
- Member, Examination Committee (Science) 2020-2022
- Member, Placement Cell Committee 2020-2022
- Member, Environment Science Committee 2020-2021
- Member, Cleanliness Committee 2019-2020

Courses Taught

- **M.Sc.:** Real Analysis, Probability Theory, Planning and Analysis of Industrial Experiments, Data Mining
- **B.Sc.:** Discrete Probability and Probability distributions (I & II), Continuous Probability Distributions, Sampling Distributions and Exact Tests, Statistical Methods, Distribution Theory-I, Design and Analysis of Experiments, Regression Analysis, Actuarial Statistics, Data Analytics, C Programming (Turbo C), Statistical Computing Using R Software, Data Visualization with R-software and MS-EXCEL, Computational Statistics using MS-EXCEL I & II.

Projects Supervised

Supervised and mentored 20+ undergraduate and postgraduate project groups, ensuring successful project completion and fostering academic and professional growth of students.

Consultancy Experience

Experienced statistical consultant with 10+ years of expertise in delivering comprehensive analytics, predictive modelling, and research services for 30+ clients from diverse fields, enhancing research quality and driving data-driven decision-making.

Presentation/Participation in Conferences/Workshops/etc.

- Presented a research paper entitled “Robust and Sparse Parameter Estimation for High-Dimensional Data” in an International Conference on Advances in Statistical Methods, Data Science and Official Statistics organized by the Department of Statistics, Shivaji University, Kolhapur during June 19-21, 2025.
 - Presented a research paper entitled “Jackknifed Robust Liu-Type Estimator for Linear Regression” in an online International Conference on Visionary Innovations in Statistical Theory and Applications (VISTA-2021) organized by Indian Council of Agricultural Research - National Academy of Agricultural Research Management (ICAR-NAARM), Hyderabad during February 24-28, 2021.
 - Presented a research paper entitled “Adaptive Sparse Partial Robust M Regression” in National Conference on Applied Statistics and Informatics organized by the Department of Statistics, Shivaji University, Kolhapur during March 10-11, 2017.
 - Presented a research paper entitled “GM Estimator Based Variable Selection Method in Linear Regression” in an International Conference on Robust Statistics (ICORS-2015), held at the Indian Statistical Institute (ISI), Kolkata during January 12-16, 2015.
 - Presented a research paper entitled “A Consistent Variable Selection Criterion for Linear Regression based on GM-Estimator” in Research Colloquium organized by the Department of Statistics, Shivaji University, Kolhapur on November 24, 2014.
 - Presented a research paper entitled “A new Robust Estimator in presence of Multicollinearity and Outliers” in National Conference on New Horizons of Statistics organized by the Department of Statistics, Solapur University, Solapur during October 19-21, 2013.
 - Participated in National Conference on “Applied Statistics” organized by the Department of Statistics, Shivaji University, Kolhapur during March 11-12, 2016.
 - Participated in National Symposium on “Business Analytics and Data Mining” organized by the Department of Statistics, Shivaji University, Kolhapur during March 21-22, 2014.
 - Participated in an International Conference on “Recent advances in Statistics and their Applications” along with 33rd Annual Convention of ISPS, held at the Department of Statistics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during December 26-28, 2013.
 - Participated in National Workshop on “Statistical Computing” organized by the Department of Statistics, Solapur University, Solapur during September 21-23, 2013.
 - Worked as an examiner in Statistical Oral Quiz competition organized by Pune University Statistics Association (PUSA) on March 15, 2025.
 - Participated and worked as an examiner in Statistical Oral Quiz competition organized by Shivaji University Statistics Teachers Association (SUSTA) on January 31, 2016.
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Completed Induction/Orientation/Refresher/FDP

- 2-Weeks Refresher Course in “Mathematical Science” organized by Teaching Learning Centre (TLC), Ramanujan College, Delhi under MHRD-PMMMNTT scheme during September 26 - October 10, 2022.
(Obtained Grade: A⁺)

- 2-Weeks Faculty Development Programme on “Quantitative Methods for Data Analysis” organized by Teaching Learning Centre (TLC), Ramanujan College, Delhi under MHRD-PMMMNTT scheme during August 12-25, 2020. (Obtained Grade: A⁺)
- 3-Days Online Faculty Development Program on “Interactive-Impactful E-Learning Techniques” organized by K. C. College of Engineering and Management Studies and Research, Thane during July 18-20, 2020.
- 4-Weeks Induction/Orientation Programme for ”Faculty in Universities/Colleges/Institutes of Higher Education” organized by Teaching Learning Centre (TLC), Ramanujan College, Delhi under MHRD-PMMMNTT scheme during June 26 – July 24, 2020. (Obtained Grade:A⁺)
- 4-Weeks Induction/Orientation Programme for ”Faculty in Universities/Colleges/Institutes of Higher Education” organized by Teaching Learning Centre (TLC), Ramanujan College, Delhi under MHRD-PMMMNTT scheme during 4th June 4 – July 1, 2020.
- One Week National Online Faculty Development Program on “ICT Tools for Effective Teaching Learning” organized by School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded during May 11-16 2020.
- One Week Online Faculty Development Program on “C & CPP” organized by P.V.P.I.T. Sangli (Budhgaon) in association with IIT-Bombay Spoken Tutorial project during April 26 - May 2, 2020.
- One Week Online Faculty Development Program on “R - Language for analytics and Data Science” organized at Sinhgad College of Engineering, Vadgaon (Bk), Pune in association with Spoken Tutorial Project, IIT Bombay during April 27 - May 2, 2020.

Invited lectures in workshops/Training programs/etc.

- Resource person in a one-day national workshop on ‘Formulation and Testing of Hypothesis’ organized by the Ph.D. research center, ABMS Parishad’s, Shri Shahu Mandir Mahavidyalaya, Pune on March 28, 2025.
- Delivered series of lectures on “Graphical Procedures and Data Visualization in SAS” to M.Sc.-II (Statistics/ASI) students, Department of Statistics, Shivaji University, Kolhapur on July 25, 2024.
- Delivered lectures on “Introduction to Base SAS” to M.Sc.-II (Statistics/ASI) students, Department of Statistics, Shivaji University, Kolhapur on July 4, 2024.
- Resource person in a one-day workshop on ‘Applications of MINITAB Software’ organized by the Department of Mathematics and Statistics, KBP Mahavidyalaya, Pandharpur, under RUSA STRIDE Scheme, on January 10, 2024.
- Resource person in a one-day workshop on ‘R Programming’ organized by the Department of Statistics, Yashwantrao Chavan Institute of Science, Satara on March 25, 2023.
- Resource person in a one-week national workshop on ‘Data Analytics using Python’ organized by the Department of Statistics, KTHM College, Nashik, under Research Capacity Building UGC STRIDE Scheme, UGC, New Delhi during August 9-15, 2021.
- Delivered lectures on “Real Analysis and Probability Theory” in the SET, NET Coaching Programme organized by the Department of Statistics, Sadguru Gadage Maharaj College, Karad on July 9, 2021.
- Delivered a series of lectures on “Real Analysis” to M.Sc. I students, Department of Statistics, Shivaji University, Kolhapur during April 13-18, 2021.
- Resource person in a two-day workshop on ‘Statistical Analysis using SPSS’ organized by the Department of Statistics, Yashwantrao Chavan Institute of Science, Satara during March 27-28, 2021.
- Delivered an online lecture on “Data Mining and M.Sc. Entrance Examination (Statistics) Preparation” organized by the Department of Statistics, Rajarshi Chhatrapati Shahu College, Kolhapur on April 21, 2020.
- Delivered a lecture on “Data Mining” to B. Sc. III students, Department of Statistics, Rajarshi Chhatrapati Shahu College, Kolhapur on January 18, 2020.
- Delivered lectures in the Training Program for M.Sc. Entrance Examination in Statistics, organized by the Department of Statistics, Rajarshi Chhatrapati Shahu College, Kolhapur during April 22 - May 4, 2019.
- Delivered lecture on “Statistics paper-II for NET/SET Exam” in the workshop on ‘NET/SET Exam and Career Guidance’ organized by the Department of Statistics, Yashwantrao Chavan Institute of Science, Satara on March 16, 2019.
- Delivered lecture on “Statistical Hypothesis Testing in SPSS Software” in the workshop on ‘Applications of software

in Statistics' organized by the Department of Statistics, Sadguru Gadage Maharaj College, Karad on February 24, 2019.

- Delivered lecture on “Data Mining” to B. Sc. III students, Department of Statistics, Rajarshi Chhatrapati Shahu College, Kolhapur on February 1, 2019.
- Delivered two lectures on “Pandas Library in Python” and conducted laboratory sessions in the value-added course on “Python for Data Science” offered by the Department of Statistics, Shivaji University, Kolhapur during December 20-24, 2018.
- Delivered series of lectures on “MINITAB- A Statistical Software” to M.Sc. students, organized by the Department of Statistics, Padmabhushan Dr. Vasantrodada Patil Mahavidyalaya, Tasgaon on December 18, 2018.
- Delivered series of lectures in “Value Added Course on Introduction to Python Programming” offered by the Department of Statistics, Shivaji University, Kolhapur during July 11-16, 2018.
- Delivered lectures in the “Training Program for M.Sc. Entrance Examination in Statistics” organized by the Department of Statistics, Rajarshi Chhatrapati Shahu College, Kolhapur during April 20 - May 5, 2018.
- Delivered a lecture on “Real Life Data and Statistics” to B. Sc. students, Department of Statistics, Rajarshi Chhatrapati Shahu College, Kolhapur on September 05, 2017.
- Delivered a lecture on “Role of Statistics in Computer Science” organized by the Department of B. C. S., Yashavantrao Chavan Institute of Science, Satara on August 5, 2017.
- Delivered lectures on “Basic Programming in SAS” in the ‘Training Program on SAS software’ conducted by the Department of Statistics, Shivaji University, Kolhapur during July 19– 24, 2017.
- Delivered lectures on “Manipulation of Data and Output Delivery System (ODS) in SAS” in the ‘Training Program on SAS software’ conducted by the Department of Statistics, Shivaji University, Kolhapur during January 09– 14, 2017.
- Delivered a lecture on “Scope of Statistics in Several Fields” to B. Sc. students, Department of Statistics, Shri Shahaji Chhatrapati Mahavidyalaya, Kolhapur on January 12, 2017.
- Conducted laboratory sessions for two days on “Statistical Data Analysis using SPSS” in “A Workshop on Statistical Data Analysis using SPSS” organized by the Department of Statistics, Shivaji University, Kolhapur during December 26-31, 2016.
- Delivered three lectures on “Linear Algebra” in the UGC sponsored workshop for NET Examination organized by the Department of Statistics, Shivaji University, Kolhapur during December 9-16, 2016.
- Delivered series of lectures on “JMP, JMP Pro (SAS) and Statistical Analysis” for M.Sc. students in the workshop conducted by the Department of Statistics, Yashavantrao Chavan Institute of Science, Satara during September 23-24, 2016.
- Delivered a talk on “Introduction to SAS Software” to the faculty members of Yashavantrao Chavan Institute of Science, Satara on May 2, 2016.
- Delivered series of lectures on “Preparation of SET/NET Examinations and Linear Algebra” in the workshop on Preparation of SET/NET Examinations organized by the Department of Statistics, Shivaji University, Kolhapur during January, 2016.
- Delivered series of lectures in the workshop on “Data Mining” organized by the Department of Statistics, Rajarshi Chhatrapati Shahu College, Kolhapur on January 03, 2016.
- Delivered a lecture in the certificate course on “Computational Statistics Using R Software” conducted by Rajarshi Chhatrapati Shahu College, Kolhapur during October, 2015 to January, 2016.
- Delivered a talk on “Graphics and Statistical Analysis Using R” in the Workshop on “Introduction of R Software” organized by Sadguru Gadage Maharaj College, Karad on December 28, 2015.
- Delivered series of lectures in the “Training Program on SAS Software” to M.Sc. II (Stat/ASI) students, organized by the Department of Statistics, Shivaji University, Kolhapur during July 7-12, 2015.
- Conducted series of laboratory sessions on “Base SAS and Statistical Analysis” for M.Sc. and PGDAS students at the Department of Statistics, Shivaji University, Kolhapur during February-March, 2015.
- Delivered series of lectures in the “Training Program on SAS Software” to M.Sc. II students, Department of Statistics, Shivaji University, Kolhapur during October 7-12, 2013.