



## Dr. Mayur Savsani

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Google Scholar: <https://scholar.google.com/citations?user=SmpPpIoAAAAJ&hl=en>

### CAREER OBJECTIVE

I am an ambitious individual with a strong desire to research in various industries such as Health Care, Machine Learning, Banking, FMCG, and Insurance. With my proactive and fast learning attitude, I aim to leverage my analytical and methodical research skills to contribute to the advancement of knowledge and help organizations achieve their goals. I am excited about opportunities to contribute my talents and grow as a professional in these dynamic fields.

### ACADEMIC QUALIFICATION

Course Name	Stream	Institute/University	Year	Percentage/ Status
Ph.D. (Statistics)	Science	Saurashtra University	August 2017	Completed
M.Sc.(Statistics)	Science	Saurashtra University	April 2008	77.55%(1 <sup>st</sup> Rank)
B.Sc.(Statistics)	Science	Saurashtra University	April 2006	78.84%

### PROFESSIONAL EXPERIENCE

Role	Department/ College	Duration
Assistant Professor (GPSC Class-2)	H.& H.B. Kotak Institute of Science, Rajkot	November 2023 to continue
Assistant Professor (Contractual)	Department of Statistics, Saurashtra University, Rajkot	June 2022 to June 2023
Assistant Professor	Symbiosis Statistical Institute, Pune	May 2019 to May 2021
Data Scientist	SRKay Consulting Group, Surat	November 2018 to April 2019
Incharge-Talent Academy	SRKay Consulting Group, Surat	February 2018 to April 2019
SAS Trainer	Department of Statistics, Saurashtra University, Rajkot	December 2015 to February 2018
Visiting Faculty	Department of Home Science, Saurashtra University, Rajkot	20 <sup>th</sup> February 2017 to 24 <sup>th</sup> April 2017
Assistant Professor (Contractual)	Department of Statistics, Saurashtra University, Rajkot	November 2013 to February 2018

## **TECHNICAL SKILL**

**Skills:** Statistical Analysis, Advance Analytics, Quantitative Analysis, Qualitative Analysis, Exploratory Data Analysis, Predictive Modeling, Base SAS Programming, SAS Macro & SQL, SAS Visual Business Analyst, Hadoop integration with SAS, DS2 Programming with SAS, Predictive Modeling using SAS Enterprise Miner, SPSS, Tableau consumer, MATLAB Basic knowledge of ML Techniques using Python, Design Expert.

## **ROLES AND RESPONSIBILITIES**

### **Assistant Professor (at H & H. B. Kotak Institute of Science, Rajkot, Gujarat)**

- As an educator, I have taught several statistical papers, including Descriptive Statistics, Probability Distribution, Statistical Inference, and Sampling Theory to under graduate students.
- My teaching methodology involves adapting my lessons to meet the diverse needs of my students and providing relevant examples and case studies to ensure they understand and retain the material.
- Being NSS Coordinator, I lead with dedication to instill social responsibility in students. I effectively plans and implements community service programs, ensuring volunteers are well-prepared and engaged in impactful activities that benefit society.
- I am coordinator of Interest Subsidy Scheme on Educational Loan, Education Department, Gujarat State.
- I serve as a member on various institutional committees, contributing to documentation of NAAC Criteria 3 and supporting the organization's objectives through active participation and collaboration.
- I mentor undergraduate students on their projects, providing guidance, support, and insights to help them develop their skills and achieve successful outcomes in their academic endeavors.

### **Assistant Professor (at Saurashtra University, Rajkot)**

- I have determined the training needs of students and developed relevant training classes to meet those needs.
- As an educator, I have taught several statistical papers, including Probability Distribution, Statistical Inference, Operations Research, Sampling Theory, and Linear Algebra, to master's and research scholars.
- My teaching methodology involves adapting my lessons to meet the diverse needs of my students and providing relevant examples and case studies to ensure they understand and retain the material.

### **Assistant Professor (at SSI, Pune)**

- As an academic professional, I have held several key roles including serving as an NAAC in-charge, IQAC Coordinator, and Faculty in-charge for examination.
- I have developed relevant training programs to meet the training needs of staff and students.
- I have adapted my teaching strategies to suit the diverse needs of my students, resulting in customized lesson plans.
- I continuously evaluate and update my course strategies and content to ensure they are up-to-date with the latest trends and technological advancements, particularly in the field of M.Sc. (Applied Statistics).
- I collaborate with other faculties to gain insights into their needs and provide data analysis-based solutions to support their work.
- I have mentored over 30 Post Graduate Students and research scholars, sharing my knowledge

- and expertise while also learning from my mentees.
- I take pride in helping students achieve their academic and personal goals and strive to be a positive role model for them.

#### **Data Scientist (at SRKay CG LLP, Surat)**

- I successfully managed a team of approximately 40 interns, overseeing their development and ensuring effective team communications.
- I drove operational improvements that increased profit margins, contributing to the overall success of the organization.
- I adeptly resolved conflicts and negotiated mutually beneficial agreements between interns and management team, fostering a positive work environment.
- I served as a subject matter expert in machine learning techniques, leveraging my knowledge to contribute to the success of projects.
- I collaborated with project leaders and stakeholders to establish and achieve project objectives.
- I utilized various machine learning techniques, such as Regression, Classification, Clustering, Association Rule, and Dimension Reduction, to support project objectives and drive results.

#### **Assistant Professor (at Saurashtra University, Rajkot)**

- I have determined the training needs of students and developed relevant training classes to meet those needs.
- I have implemented a discipline plan, which includes effective measures and various lesson plans, to increase concentration, participation, and progress of student accountability.
- As an educator, I have taught several statistical papers, including Probability Distribution, Statistical Inference, Operations Research, Sampling Theory, and Linear Algebra, to master's and research scholars.
- My teaching methodology involves adapting my lessons to meet the diverse needs of my students and providing relevant examples and case studies to ensure they understand and retain the material.
- I have received positive feedback from students and colleagues for my dedication to teaching and mentoring, which has contributed to the success of students in their academic and professional pursuits.

#### **CERTIFICATIONS**

- SAS Base SAS Programming
- SAS Visual Business Analyst: Exploration and Design using SAS Visual Analytics
- Predictive Modeling Fundamentals I using IBM SPSS Modeler
- MATLAB Onramp
- Machine Onramp using MATLAB
- Tableau Consumer

<b>RESEARCH PAPER PUBLICATION</b>				
<b>Sr. No.</b>	<b>Research Paper (Topic)</b>	<b>Authors</b>	<b>Year</b>	<b>Journal Details</b>
<b>1</b>	A study of stress level of married men and women using multinomial logistic regression	A.M. Suryawanshi, M.V. Savasani, J.N. Shah	2015	IJSRP, volume 5, Issue 8, ISSN: 2250-3153
<b>2</b>	UMP – Test For Moderate Distribution Using Monotone Likelihood Ratio	M.V. Savasani, J.N. Shah	2015	Emerging Trends in Basic and Applied Sciences volume 1, page 147-154, ISBN – 978-93-5212-826-6
<b>3</b>	Optimization of Oil Extraction from Jatropha Waste Using Response Surface Methodology	Vikram Solanki, KinjalPrajapati, MayurSavsani, Shreyas Bhatt	2016	Journal of Chemical, Biological and Physical Sciences, Section D; February 2016 – April 2016, Vol. 6, No.2; 198-206, E- ISSN: 2249 –1929.
<b>4</b>	Factor Affecting on Anxiety Level: Case Study of People Living in Rajkot City, India	R.R. Jaiswar, Dr. G.C. Bhimani, A.M. Suryawanshi, M.V. Savasani	2016	The International Journal of Science & Technoledge, Vol.4, Issue 5.
<b>5</b>	Robustness of Moderate Distribution	Mayur Savasani, D.K.Ghosh and Jinal Shah	2017	Proceedings of the 11thINDIACom; INDIACom-2017; 4 <sup>th</sup> International Conference on “ Computing for Sustainable Global Development”, Bharati Vidyapeeth's Institute of
<b>6</b>	Complete Diallel Cross Plan using Standard Latin Square Design of size $p$ , with $p$ is odd	D.K.Ghosh Jinal Shah and Mayur Savasani	2017	Proceedings of the 11thINDIACom; INDIACom-2017; 4 <sup>th</sup> International Conference on “ Computing for Sustainable Global Development”, Bharati Vidyapeeth's Institute of
<b>7</b>	Bayesian Inference for Moderate Distribution	M.V. Savasani and D.K.Ghosh	2017	International Journal of Agricultural Statistical Science, Vol. 13, No.1, pp. 303-317, ISSN 0973-1903

<b>8</b>	A Study of Menstrual Disorders in Reproductive Age Group and Its Correlation with Biological Variables	Mayur Savsani and Riddhi Solanki	2018	International Journal of Scientific Research in Science Technology, Vol. 4, Issue 2, 1428-1437, Online ISSN- 2395-602X, Print ISSN- 2395-6011.
<b>9</b>	Complete Diallel Crosses Plan From A Bibd With Series $V = B = 4\lambda+3$ , $R = K = 2\lambda+1$ , $\Lambda$	Jinal Shah and Mayur Savsani	2018	International Journal of Creative Research Thoughts, Vol. 6, Issue 1, 1542-1548, ISSN- 2320-2882.
<b>10</b>	Comparative Risk Return Analysis of Bombay Stock Market With Selected Banking Stocks in India	Mayur Savsani and Uravi Rathod	2018	International Journal of Scientific Research in Science Technology, Vol. 4, Issue 2, 1428-1437, Online ISSN- 2395-602X, Print ISSN- 2395-6011.
<b>11</b>	A Novel approach for Credit Card Fraud Detection through Deep Learning	Jasmin Parmar, Achyut Patel and Mayur Savsani	2020	Data Science and Intelligent Application, Lecture notes on Data Engineering and Communication Technologies <a href="https://doi.org/10.1007/978-981-15-4474-3_22">https://doi.org/10.1007/978-981-15-4474-3_22</a>
<b>12</b>	Credit Card Fraud Detection Framework – A Machine Learning perspective.	Jasmin Parmar, Dr. Achyut Patel and Dr. Mayur Savsani	2020	International Journal of Scientific Research in Science and Technology (IJSRST), Vol: 7, Issue 6, Nov-Dec 2020
<b>13</b>	Applications of machine learning for financial forecasting and stock trading	Dr. Mayur Savsani	2024	IEEE <a href="https://doi.org/10.1109/iconstem60960.2024.10568742">https://doi.org/10.1109/iconstem60960.2024.10568742</a>
<b>14</b>	Development of an application for recognizing mathematical formulas using convolutional neural networks	Dr. Mayur Savsani	2024	IEEE <a href="https://doi.org/10.1109/icitiit61487.2024.10580119">https://doi.org/10.1109/icitiit61487.2024.10580119</a>

<b>15</b>	Applying Online Machine Learning Models for Trading in the Financial Market	Dr. Mayur Savsani	2024	IEEE <a href="https://doi.org/10.1109/ic3iot60841.2024.10550336">https://doi.org/10.1109/ic3iot60841.2024.10550336</a>
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<b>PATENT PUBLICATIONS</b>			
<b>Sr. No.</b>	<b>Publication date</b>	<b>Application Number</b>	<b>Title of the Invention</b>
<b>1</b>	12/08/2022	202211043807 A	Trading and earning money online management and notification system
<b>2</b>	17/03/2023	202341010269 A	Automatic Segmentation and Classification of Brain Tumor using Machine Learning
<b>3</b>	16/06/2023	202341032893 A	Algorithm for optimizing the placement of wireless sensors using machine learning
<b>4</b>	12/02/2024	403231-001	Financial Transactions Display Device ( <b>Grant Patent</b> )
<b>5</b>	22/03/2024	202421010906 A	Integrated System for Predictive Analytics and Decision Making in Financial Markets Using Machine Learning
<b>6</b>	23/08/2024	202421057209 A	Advanced Neural Network Architecture For Time-Series Forecasting And Portfolio Optimization In Stock Market Investments

<b>BOOK PUBLICATION</b>				
<b>Sr. No.</b>	<b>Title of Book</b>	<b>Authors</b>	<b>Year</b>	<b>ISBN Details</b>
<b>1</b>	Fundamental of Biostatistics	Dr. Girish Bhimani Dr. Mayur Savasani, Dr. Jinal Shah	2017	ISBN: 978-93-5108-788-5

<b>FDP/ WORKSHOP ATTENDED/ PAPER PRESENTATIONS AT CONFERENCE</b>					
<b>Sr. No.</b>	<b>Workshop/ Presentation</b>	<b>Topic</b>	<b>Organized by Institute</b>	<b>Duration</b>	<b>Year</b>
<b>1</b>	Workshop	Data Science in Healthcare for Education and Research	Symbiosis Statistical Institute, constituent of Symbiosis International (Deemed University)	1 day	Feb'23
<b>2</b>	Poster Presentation	A Scientometric study of Research output on the use of artificial intelligence in Indian higher education	Department of Statistics, Saurashtra University, Rajkot	1 Day	Feb'22
<b>3</b>	International Faculty Development Programme	-	Government of Gujarat through KCG & HRDC, Vallabh Vidhya Nagar, Conducted jointly by	2 Days	Oct'17
<b>4</b>	Paper Presentation	Essential of Statistics in 21 <sup>st</sup> Century	C.D. J. Rofel Arts and Smt. I.S.R.A. Rofel Commerce College, Vapi in Association with IQAC and	1 Day	July 17
<b>5</b>	National level Workshop	Role of Internal Quality Assurance Cell in Accredited Institution	Saurashtra University, Rajkot	1 Day	Apr'17
<b>6</b>	Paper Presentation	Robustness of Moderate Distribution	BVICAM – Delhi	3 Days	Mar'17
<b>7</b>	Workshop	Anti-Plagiarism awareness program and Urkund workshop	Dept. of Statistics & Chemistry, Saurashtra University,	1 Day	Mar'17
<b>8</b>	Workshop	Data Science	IQAC & Dept. of Statistics, Saurashtra	1 Day	Nov'16
<b>9</b>	National level Workshop	Challenges and opportunities in statistics for researchers	Dept. of Statistics & Dept. of Commerce, Saurashtra University, Rajkot	1 Day	Feb'16
<b>10</b>	International Workshop	Statistics and Society	Dept. of Statistics, Sardar Patel University, Vallabh	3 Days	Apr'15

<b>11</b>	Paper Presentation	UMP-test for Moderate Distribution using Monotone Likelihood ratio	Shri Mouni Vidyapeeth's Karamveer Hire Arts, Science, Commerce and Education college,	1 Day	Mar'15
<b>12</b>	Workshop	NAAC Assessment And Accreditation	Internal Quality Assurance Cell (IQAC), Saurashtra	1 Day	Aug'13
<b>13</b>	Workshop	Career Opportunities In Quality Management	Dept. of Statistics, Sardar Patel University, Vallabh	1 Day	Feb'13
<b>14</b>	National Conference	Statistics And Management	Department of Statistics, Saurashtra University, Rajkot	3 Days	Feb'12
<b>15</b>	Workshop	Career Opportunities In Statistics	Dept. of Statistics, Sardar Patel University, Vallabh	1 Day	Jan'12
<b>16</b>	Paper Presentation	Making Questionnaire To Analyze Data on	Department of Statistics, Saurashtra Univeristy, Rajkot	1 Day	Mar'11