



**INDIAN STATISTICAL INSTITUTE**  
**SQC & OR Unit, Hyderabad**  
*Street 08, Habsiguda, Hyderabad 500007*



**Workshop**  
*on*  
**AI, ML, and Optimization Techniques for Business Analytics**  
**[21-25 May 2025]**

**Scope and Objective of the Program:**

This Workshop is designed to support students, researchers, and faculty members aspiring to build careers in predictive and prescriptive analytics, both in academic settings and within industries. The program features lectures and tutorials by speakers from academia and industry, providing insight from both theoretical and practical angles. This approach helps participants grasp the concepts of traditional and advanced decision-making, create and optimize mathematical / quantitative models for policy formulation, and effectively utilize analytics. The success of a business hinges on making optimal decisions, which is where mathematical models and algorithms play a crucial role. Many industrial and business challenges are intelligently transformed into mathematical problems, which can be efficiently resolved with today's computing capabilities. However, managers and executives often remain unaware of this, relying instead on experience and subjective judgment, leading to decisions that are often inadequate. Mostly, training programs, including undergraduate and postgraduate courses, focus on theoretical principles, causing learners to miss the opportunity to understand the practical advantages in Operations Analytics.

This program is carefully crafted to raise awareness and motivation among attendees, minimizing theoretical content while maximizing practical application, with a special focus on modeling using machine learning tools within Operations Analytics. It is highly beneficial for those involved in teaching and promoting analytics. In addition, with minimal mathematical demands, this program offers substantial learning opportunities for both students and industry executives.

Consequently, this workshop provides a platform for participants to build, optimize, and practice various analytics models utilizing various machine learning concepts, theories, and practices.

**PATRON**

Sanghamitra Bandyopadhyay, Director, Indian Statistical Institute

**ORGANISING COMMITTEE**

Sujeet Kumar Singh, ISI, Hyderabad (Organizing Secretary)

K Venkat Ramana (Workshop Coordinator)

Shaon Naskar (Program Coordinator)

Prasun Das, Head, SQC & OR Division, ISI

ALN Murthy, Head, SQC & OR Unit, ISI Hyderabad

G Murali Rao, ISI, Hyderabad



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**Participation** (*Limited seats on first-cum-first-serve basis*):

Master's Students (Math/OR/OM/Stat/Engg.), Research Scholars, Research Associates, Faculty members, Industry Participants

**Registration Fee (exclusive of GST@18%):**

- Master's Students: ₹. 2,000/- + GST @18% (₹. 2360/-)
- Research Scholars/RA/Postdoc: ₹. 4,000/- + GST @18% (₹. 4720/-)
- Faculty members: ₹. 6,000/- + GST @18% (₹. 7080/-)
- Industry Participants: ₹. 10,000/- + GST @18% (₹. 11800/-)

(*inclusive of notebook/pen, certificate, tea/biscuits, working lunch*)

**Registration:** Interested participants can register using the link given below. The **seats are limited** and the registration will be based on **First Come First Served** Basis.

**Registration link :** <https://forms.gle/2vuvEQgc5H2psMko7>

**Accommodation:** Limited **HOSTEL** accommodation to outstation student participants may be provided on request and payment.

**Mode of Payment:** Through bank transfer *only*.

**Bank Details for Payment:**

<b>Bank Name:</b>	Canara Bank
<b>Branch:</b>	J S N Colony, Hyderabad
<b>Account No:</b>	<b>30451010000079</b>
<b>IFSC Code:</b>	CNRB0013045
<b>Account Holder Name:</b>	Indian Statistical Institute

**Faculty:** Highly experienced faculty of the Institute and guest/invited speakers from Academia & Industry with expertise in AI, ML, Optimization Techniques, Business Analytics etc.

**Coverage:** Data Science, Business Analytics, Statistical Methods for AI, ML Algorithms, Optimization Techniques etc.

**Software:** Minitab, Python, Orange Data Mining, Excel etc.

**Lecture Material:** Opensource online reference material and softcopies of faculty handouts  
(*no hardcopy of lecture material will be provided*)

**Last Date of Registration (with payment):** 18<sup>th</sup> May 2025 [*on first-cum-first-serve basis*]

**Venue:** Lecture Hall, Indian Statistical Institute, Street 08, Habsiguda, Hyderabad-500007

**For any further details:**

**Dr. Sujeet Kumar Singh**  
**Organizing Secretary**

**K Venkata Ramana**  
**Workshop Coordinator**

**Phone :** (040) 27171906 / 27153984  
**E- Mail :** [isihydworkshop@isihyd.ac.in](mailto:isihydworkshop@isihyd.ac.in)



Register Here