



**SOFTLINK**  
Digitalizing Logistics

# IIT Bombay and Softlink Global

PRESENTS

# LogiTHON

Co-Partner:



**8<sup>th</sup> – 9<sup>th</sup> MARCH 2025**

## about LogiTHON

The Indian Institute of Technology Bombay (IIT Bombay), on the occasion, of IEOR Day in partnership with Softlink Global Pvt. Ltd. & AllMasters, presents **LogiTHON**, a groundbreaking 24-hour hackathon converging technology and logistics. This hackathon will be a key feature of the grand annual Industrial Engineering and Operations Research (IEOR) Day (8th March 2025) celebration at IIT Bombay. The IEOR Day event will convene leading figures from academia and industry to explore the latest advancements, research, and future directions of IEOR, providing a crucial platform for networking and collaboration among stakeholders dedicated to the field's progress.

LogiTHON on 8th & 9th March 2025, brings together diverse participants to develop innovative solutions addressing key logistics challenges, with a focus on efficiency, sustainability, social impact, and mentorship.

LogiTHON aims to reshape the future of logistics by exploring supply chain optimization and last-mile delivery innovations, fostering a dynamic ecosystem of exchanging ideas and collaborative partnerships.

### **Duration :**

24 hours of Innovation and Coding!

### **Venue:**

IEOR, IIT Bombay, Mumbai, India

### **Eligibility:**

Problem Solvers! Students pursuing BE/BTech SY, TY or Final Year, or a Postgraduate. You can register with a valid student ID card.

### **Team Formation:**

Students must register in teams of 2 to 4 members. Team should have a Team Leader and Team name.

## PROBLEM STATEMENT:

**#1**

### RAPID COMPLIANCE CHECKER FOR CROSS-BORDER SHIPMENTS

## Scenario

Imagine you work for a small export business that sends parcels internationally. You need a simple system to quickly verify the compliance of each parcel before it's handed off to the courier. This system should check for basic issues—like missing required fields, restricted item types, or conflicting destination restrictions—and flag any potential problem in real time.

## Key Tasks

1. Data Ingestion
2. Rule-Based Validation
3. Dashboard or UI
4. Output Generation



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## PROBLEM STATEMENT:

#2

### MULTI-MODAL CROSS-BORDER ROUTE SELECTOR

## Scenario

A small logistics provider wants a quick way to determine the best shipping route for cargo traveling across borders using different transportation modes (e.g., only air, only sea, only land, or combinations like sea-air, land-sea, air-land, and so on).

You need to create a tool that accepts shipment details and returns optimal routing suggestions ( a small set of ranked options) based on estimated costs, transit times, and feasibility when crossing borders.

## Key Tasks

1. Multi-Modal Route Data Simulation
2. Shipment Inputs
3. Route Assembly & Logic
4. Ranking & Output
5. User Interface



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