
1-Day Workshop on AI Applications in Logistics

Objective

To introduce participants to practical AI tools, algorithms, and workflows that improve logistics efficiency, reduce costs, and enable real-time decision-making.

09:00 – 09:30 | Introduction to Logistics & Digital Transformation

- Logistics 4.0 overview
- Role of AI in modern supply chains
- Key challenges: delays, route inefficiency, inventory mismatch, demand uncertainty

09:30 – 10:30 | AI Technologies Used in Logistics

- Machine Learning (forecasting, classification, optimization)
- Computer Vision (barcode reading, warehouse automation, defect detection)
- NLP (automated documentation, invoice processing)
- Robotics & Autonomous Vehicles
- IoT + AI for real-time tracking

10:30 – 11:15 | Demand & Inventory Forecasting with AI

- Predicting product demand
- Inventory replenishment optimization
- Safety-stock calculation using ML
- Demo: simple forecasting using AI tools (Excel + AI / KNIME / Python demo optional)

11:15 – 12:00 | Route Optimization & Fleet Management

- Shortest path calculation
- Vehicle routing algorithms (VRP, TSP)
- AI for fuel efficiency & load balancing
- Real-time re-routing using GPS + AI

12:00 – 01:00 | Lunch Break

01:00 – 02:00 | Warehouse Automation with AI

- Robotics in sorting & picking
- AI-based slotting and storage optimization
- Computer vision for quality control
- AGVs & drones in warehouse

02:00 – 03:00 | AI-enabled Supply Chain Visibility

- Predictive ETA tracking
- Automated alerts & exception management
- Digital Twins for supply chain simulation
- Case studies (Amazon, DHL, Flipkart)

03:00 – 03:45 | Hands-on Session

(Choose one based on participants)

1. **Route optimization using a simple AI tool**
2. **Forecasting using KNIME / Python**
3. **Inventory optimization notebook**

03:45 – 04:30 | AI Tools for Logistics

- ChatGPT, Gemini, Claude for planning
- Power BI + AI visuals
- KNIME workflows
- Supply-chain specific tools:
 - SAP Leonardo AI
 - Oracle SCM AI
 - Locus, FourKites, LogiNext

04:30 – 05:00 | Discussion, Q&A & Certification

Deliverables

- Presentation materials
- Dataset for hands-on
- Sample workflows
- Certificate of participation

Instructor: Mr Suresh Tripathi is a founder of Geosun Pty Ltd an Australian company registered in year 2000 to provide AI corporate training, data center solutions and data pipeline end-to-end cloud platform. He has nearly 25+ years of work experience in digital data analytics integrated with AI and tech platforms. His education qualifications include master degree in Statistics from India, master degree in Geostatistics from Australia and master degree in Geoscience from Australia. He completed his AI certificate courses from Stanford Business School from California and High Impact Leadership from Cambridge University, UK. He has worked in Australia and US focusing his career on data strategy, tech platforms, and developing in-house training. He has worked with range of industries in Australia and US that include Deloitte, Flybuys, Ambulance Victoria, CFA (Emergencies Services), Avexa, Covance, Avance Clinical (Pharmaceuticals), Intelligen, Commonwealth Bank, Hackett Group (US), Health and Safety Sphera Solutions(US), Vic Government (Environment, water and energy), Waste Management (US), Outfront Media (US), Adani Mining (Australia) and Fura Gems Industries (Dubai).

Fee: Rs 25,000 per participant plus GST payable to GeosunAI Tech Cloud Pvt Ltd. RTGS/Cheque/ PhonePe via below link form.

Bank: Punjab National Bank

Account Name: NB, GeosunAI Tech Cloud Pvt Ltd

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