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## A 1-Day Workshop: AI Applications in Healthcare

### Objective

To provide participants with a solid understanding of how Artificial Intelligence is transforming diagnostics, treatment, hospital operations, medical research, and patient engagement — with hands-on demonstrations.

### Full-Day Schedule (9:00 AM – 5:00 PM)

#### 9:00 – 9:30 AM | Registration + Introduction

- Welcome & workshop objectives
- Overview of AI, ML, Deep Learning
- Current global trends in AI for healthcare
- Real examples: ChatGPT, IBM Watson Health, Google DeepMind, PathAI

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#### 9:30 – 10:30 AM | Session 1: AI in Diagnostics

- Applications:
  - Medical image analysis: X-ray, CT, MRI, Ultrasound
  - Cancer detection using deep learning
  - AI screening tools (eye, skin, TB screening, etc.)
- Hands-on Demo:
  - Basic image classification using a no-code tool (Teachable Machine / KNIME)

#### 10:30 – 10:45 AM | Break

#### 10:45 – 12:00 PM | Session 2: AI in Clinical Decision Support

- Predictive analytics for disease risk scoring
- AI for personalized treatment plans
- Early warning systems in hospitals (ICU monitoring)
- NLP for reading patient records
- Hands-on Demo:
  - Build a simple risk prediction model (diabetes/heart disease)

#### 12:00 – 1:00 PM | Lunch

#### 1:00 – 2:00 PM | Session 3: AI in Hospital Operations

- AI in scheduling & resource optimization
- Digital twins for hospital planning
- Queue & patient flow optimization
- Chatbots for patient support
- Case studies: Apollo Hospitals, NHS AI Lab

#### 2:00 – 3:00 PM | Session 4: AI in Medical Research

- AI for drug discovery
- Genomics & precision medicine
- Clinical trial optimization



- Real examples (Insilico Medicine, Moderna's mRNA AI workflow)

3:00 – 3:15 PM | Break

3:15 – 4:15 PM | Session 5: AI Tools & Hands-On Practice

Practical exposure to:

- KNIME for healthcare data
- ChatGPT & LLM tools for summarizing medical records
- AutoML platforms
- Image segmentation demo
- Data privacy & ethics checklist

4:15 – 5:00 PM | Final Session: Implementation & Roadmap

- How hospitals adopt AI
- Required skills & team structure
- Evaluation metrics for AI systems
- Challenges: Data quality, bias, ethics, regulations
- Q&A + Certificate distribution

### Workshop Deliverables

Participants will receive:

- Slides + datasets
- Hands-on tutorials (image ML + prediction model)
- PDF handbook on AI in healthcare
- 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

Account No.: 1228102100001295