
Day 1: Introduction to AI in Defence

Morning Session:

- Welcome & Workshop Overview**
 - Objectives and outcomes
 - Brief on AI evolution in defence
- AI Fundamentals for Defence Applications**
 - Machine learning, deep learning, and reinforcement learning
 - Data types: sensor, satellite, radar, and IoT data
 - Overview of AI models suitable for defence

Afternoon Session:

3. Defence Industry Use Cases

- AI in threat detection and early warning systems
 - Autonomous vehicles and drones
 - Predictive maintenance of defence equipment
- Hands-on Exercise:**
 - AI for object detection in satellite imagery
 - Simulating threat detection scenarios using ML models

Day 2: Advanced AI Techniques and Integration

Morning Session:

- AI in Cybersecurity and Information Warfare**
 - Detecting cyber threats using AI
 - Social media and intelligence monitoring
- Decision Support Systems**
 - AI for battlefield simulations and strategic planning
 - Predictive analytics for resource allocation

Afternoon Session:

3. Autonomous Systems and Robotics

- AI-driven drones, ground vehicles, and maritime systems
 - Sensor fusion, navigation, and path planning
- Hands-on Exercise:**
 - Reinforcement learning for autonomous navigation
 - Simulated defence scenario analysis using AI

Day 3: AI Implementation, Ethics & Future Trends

Morning Session:

- AI System Deployment in Defence**
 - Integration with existing defence infrastructure
 - Data pipelines, cloud platforms, and secure AI deployment
- Ethics, Governance, and Risk Management**

- AI bias, safety, and accountability
- Defence policy implications

Afternoon Session:**3. Future Trends & Emerging Technologies**

- Swarm intelligence, quantum AI, and predictive warfare
- AI-enabled decision-making frameworks

4. Capstone Project / Simulation Exercise:

- Teams work on real-life inspired defence AI problems
- Present solutions and AI strategies

5. Closing Session:

- Summary of learnings

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 50,000 per participant plus GST payable to GeosunAI Tech Cloud Pvt Ltd. RTGS/Cheque/ PhonePe via below link form.

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