

S.No	Topic Title	Domain Category	Sub-Domain	Industry Application Area
1	Generative AI – Large Language Models (LLMs)	Artificial Intelligence	Generative Models	Content Automation, NLP Systems
2	Generative Adversarial Networks (GAN)	Artificial Intelligence	Deep Learning	Image Synthesis, Data Augmentation
3	Digital Twin	Cyber-Physical Systems	Simulation & Modeling	Smart Manufacturing, Industry 4.0
4	Robotics Automation	Intelligent Systems	Industrial Robotics	Smart Factories
5	Federated Learning	Distributed AI	Privacy-Preserving ML	Healthcare, Finance
6	Multimodal AI	Artificial Intelligence	Vision + NLP Integration	Autonomous Systems
7	Explainable AI (XAI)	Trustworthy AI	Model Interpretability	Healthcare Diagnostics
8	Edge AI	Embedded AI Systems	On-device Intelligence	IoT, Smart Devices
9	Autonomous AI Systems	Intelligent Agents	Self-Learning Systems	Defense, Robotics
10	Neuro-Symbolic AI	Hybrid AI	Logic + Deep Learning	Advanced Reasoning Systems
11	AIOps	AI for IT Operations	Predictive IT Monitoring	Enterprise IT
12	Quantum Computing	Quantum Technologies	Qubit Systems	Scientific Computing
13	Agentic AI	Autonomous Agents	AI Decision Systems	Business Automation
14	Quantum Machine Learning	Quantum AI	Hybrid Quantum-Classical ML	Drug Discovery
15	AI-Driven DevOps (AIOps + MLOps)	DevOps Intelligence	ML Lifecycle Automation	Cloud Engineering
16	TinyML	Embedded AI	Ultra-Low Power ML	Wearables, IoT
17	Agentic AI (Autonomous AI Agents)	Intelligent Agents	Multi-Agent Systems	Enterprise AI
18	AI Governance	Responsible AI	Compliance & Regulation	Policy & Enterprise
19	Ethical AI Systems	Responsible AI	Bias Mitigation	Public Sector
20	Green AI	Sustainable Computing	Energy-Efficient Models	Data Centers
21	Human-AI Collaboration Systems	Collaborative Intelligence	AI-Assisted Decision Making	Healthcare
22	Quantum Cryptography	Quantum Security	QKD Systems	Cybersecurity
23	Applied Quantum Technologies	Quantum Engineering	Quantum Hardware	Advanced R&D
24	Neuromorphic Computing	Brain-Inspired Computing	Spiking Neural Networks	AI Hardware
25	Brain-Computer Interfaces (BCI)	Neurotechnology	Neural Signal Processing	Healthcare, VR
26	Self-Evolving AI Systems	Adaptive AI	Continual Learning	Autonomous Systems
27	Quantum AI Chips	Quantum Hardware	QPU Development	High-Performance Computing
28	Autonomous Security Operations (SOAR)	Cybersecurity AI	Security Automation	SOC Operations
29	Identity & Access Management (IAM)	Cybersecurity	Authentication Systems	Enterprise Security
30	DevSecOps	Secure DevOps	Secure SDLC	Cloud Platforms
31	Cyber Threat Intelligence (CTI)	Cybersecurity	Threat Analytics	National Security
32	Digital Forensics & Incident Response (DFIR)	Cybersecurity	Incident Analysis	Law Enforcement
33	Deepfake Detection Systems	AI Security	Media Forensics	Social Media Platforms
34	Autonomous Satellite Navigation	Aerospace AI	AI-Based Guidance	Space Technology
35	Aerospace AI	Intelligent Aerospace	Flight AI Systems	Aviation Industry
36	Superconducting Qubits Technology	Quantum Hardware	Superconducting Circuits	Quantum Computing
37	Brain-Inspired AI Chips	Neuromorphic Hardware	Bio-Inspired Processors	Edge AI
38	Green Data Centers	Sustainable IT	Energy Optimization	Cloud Providers
39	Carbon-Aware Computing	Sustainable AI	Carbon Optimization	Green Cloud
40	Energy-Efficient AI Hardware	Sustainable Hardware	Low-Power Accelerators	Edge Devices
41	AI for Renewable Energy Optimization	AI in Energy	Smart Grid AI	Power Systems
42	AI-Enhanced AR/VR	Immersive AI	Intelligent XR	Education
43	Brain-Computer Interfaces (BCI) for VR	Neuro-XR	Neural Interaction	Metaverse
44	Immersive Storytelling & Gaming	XR Systems	Interactive AI	Entertainment
45	AR + AI + IoT	Smart XR	Connected Intelligence	Smart Cities
46	VR + Digital Twin for Simulation	Industrial XR	Virtual Prototyping	Manufacturing
47	AR + Robotics for Remote Control	Telerobotics	Augmented Control	Healthcare Robotics
48	XR + Blockchain for Digital Ownership	Web3 XR	NFT Integration	Digital Economy
49	AI-Powered Drones	Autonomous Systems	UAV Intelligence	Defense, Logistics