

AI IN



12 MINUTES FOR DEFENSE



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MOTIVATION - WHY AI?

Enhanced national security

Predictive threat analysis

Autonomous defense systems

Intelligence and reconnaissance improvements

Efficient military logistics



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INDUSTRY

Military Operations and Strategy
Defense Intelligence and Surveillance
Weapons Systems and Technology
Cybersecurity and Information Warfare
Logistics and Supply Chain Management



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STRATEGIC TRENDS

AI-driven autonomous weapons

Machine learning in intelligence analysis

Cybersecurity enhancements with AI

Predictive analytics in threat assessment

Robotics in battlefield operations

AI in military logistics and supply chain

Data analytics for strategic decision-making

AI for unmanned aerial and naval vehicles

Ethical AI use in military applications

AI-enhanced training and simulation

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WHY CHANGE?

Advanced threat detection

Strategic advantage

Operational efficiency

Enhanced soldier safety

Data-driven military decisions



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LEADING THE CHANGE

The United States Dept of Defense (Pentagon)
Russian Ministry of Defense
People's Liberation Army (China)
Ministry of Defence (United Kingdom)
Indian Ministry of Defence



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DIGITAL TRANSFORMATION

AI algorithms for real-time threat analysis
Autonomous drones for surveillance and recon
Machine learning in cybersecurity defense
AI-predictive maintenance of military equipment
Robotics in hazardous environment operations
AI for efficient resource allocation
Data analytics in mission planning
AI in communication and language translation
Virtual reality for combat training
AI tools for humanitarian aid and disaster response

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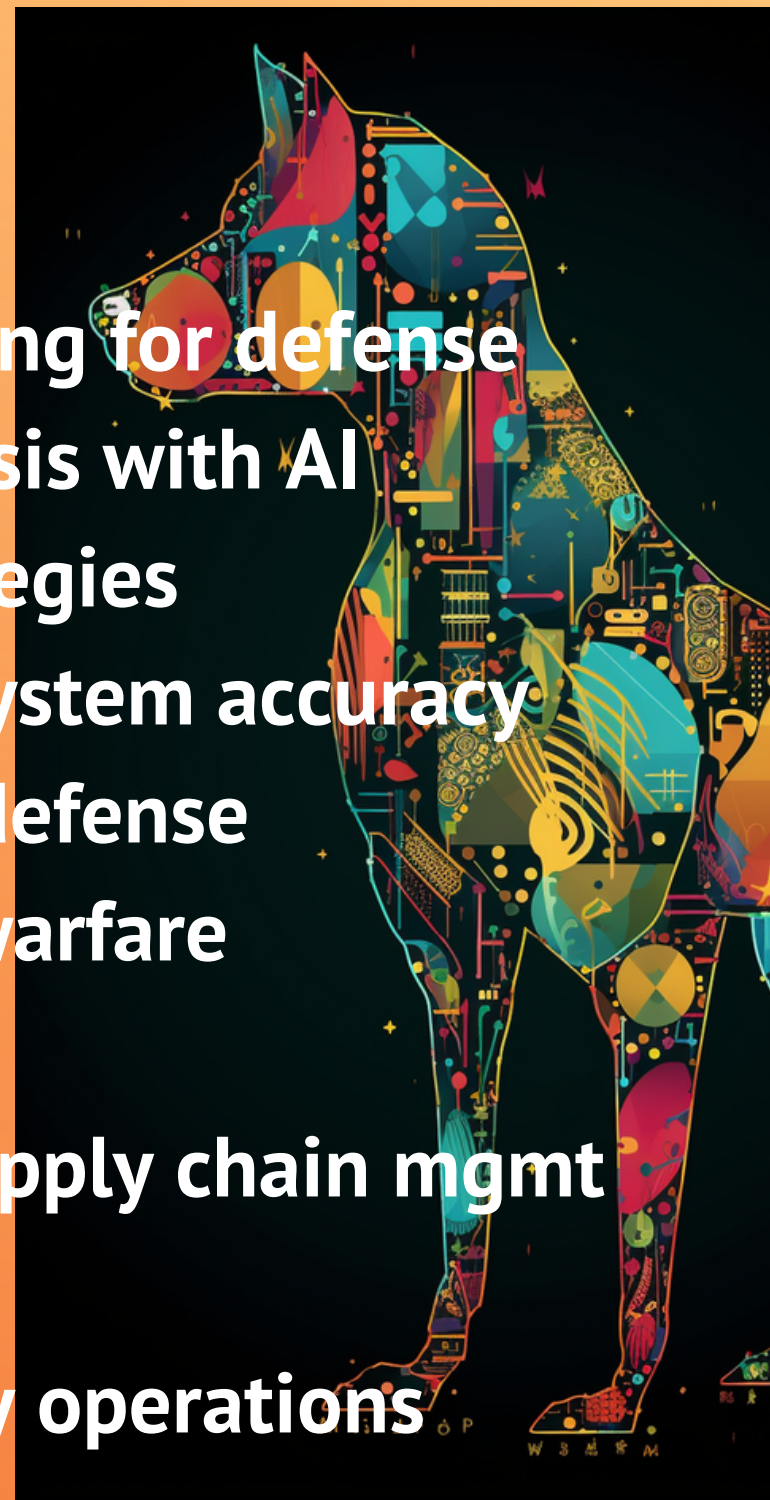


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AI DISRUPTION

AI in autonomous decision-making for defense
Real-time battlefield data analysis with AI
AI-driven counterterrorism strategies
Enhanced missile and defense system accuracy
AI for advanced air and missile defense
Machine learning in electronic warfare
AI in identifying cyber threats
Predictive AI for logistics and supply chain mgmt
AI in naval warfare strategy
Ethical AI frameworks in military operations



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GREAT EXAMPLES OF AI

US Defense Advanced Research Projects Agency
(DARPA) AI projects

Russia's AI applications in military strategy

China's AI advancements in defense technology

UK's AI drone and surveillance systems

India's AI integration in military operations

Israel's AI in missile defense systems

NATO's AI strategy in cybersecurity

AI in France's next-generation combat vehicles

South Korea's AI in border security

AI in Sweden's naval autonomous systems



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ECOSYSTEM REQUIREMENTS

Cutting-edge AI and machine learning technology
Collaboration between defense departments, tech companies, and academia
Training for military personnel in AI systems
Ethical guidelines and policies for AI in defense
Robust cybersecurity measures to protect AI systems

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AI  SUSTAINABILITY



AI for efficient use of defense resources
Reduced human casualties with AI systems
Sustainable strategies in military operations
AI in environmental monitoring for defense
Data analytics for eco-friendly military logistics

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**NEW RISKS -
ETHICAL, LEGAL, SOCIAL**



AI biases in defense decision-making
Ethical concerns in autonomous weapons
Cybersecurity vulnerabilities in defense AI
Over-reliance on AI in critical military operations
Privacy issues in intelligence gathering

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AI MISUSE EXAMPLES

Unauthorized use of military AI technology

AI-driven misinformation in warfare

AI biases leading to wrongful targeting

Over-automation reducing human oversight

Misuse of AI in surveillance and espionage



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THREE AI DILEMMAS

Autonomous weapons: control vs. efficiency?

AI in warfare: ethical limitations?

Balancing AI intelligence gathering with privacy rights?



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ORGANIZATIONAL REQUIREMENTS



Strategic AI integration in defense operations
Continuous investment in AI research and development
Ethical standards and frameworks for AI use
Strong focus on AI and cybersecurity training
Collaborative approach in global defense AI initiatives

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STEP BY STEP APPLICATION

- Identify AI applications in defense scenarios
 - Implement AI tools for surveillance, analysis, and operations
 - Train defense personnel in AI ethics and technology
 - Integrate AI in strategic planning and decision-making
 - Continuously assess AI impact and adapt strategies
- 

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BEST PRACTICES



Ethical and responsible AI use in defense
AI as a supplement to human decision-making
Transparency in AI-driven military operations
Focus on AI for humanitarian and peacekeeping efforts
Regular evaluation of AI impact on defense strategies

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17/24 AI TOOLS & MODELS

Predictive models for conflict scenarios
AI algorithms for target recognition
Machine learning in cybersecurity
Data analytics for strategic defense planning
Neural networks in autonomous system control

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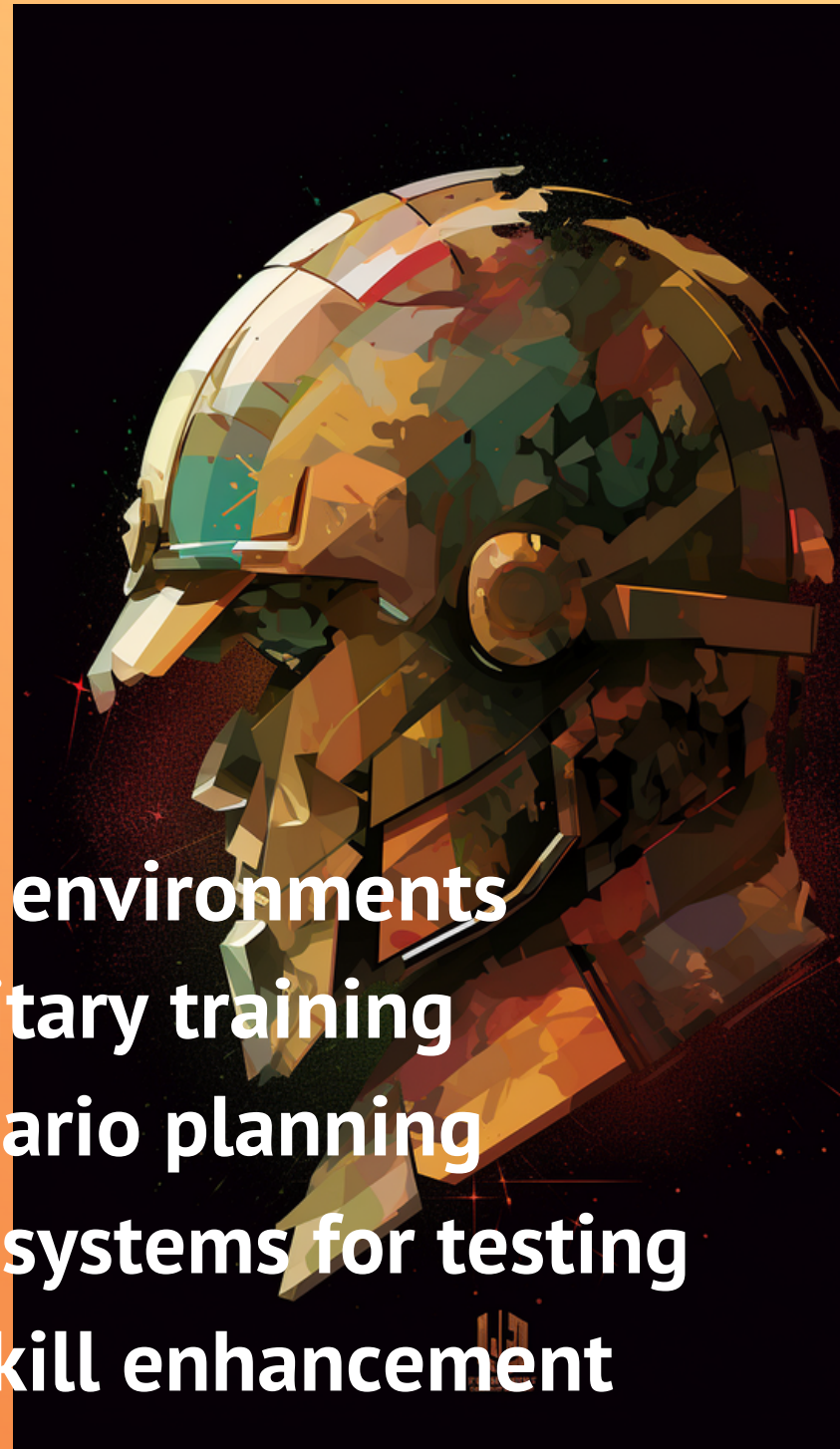


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Digital twins of battlefield environments
Virtual simulations for military training
AI models for mission scenario planning
Digital replicas of defense systems for testing
Virtual reality for soldier skill enhancement



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COOL

NORWEGIAN CASES

Norwegian Ministry of Defence

Norwegian Defence Research Establishment (FFI)

Norwegian Armed Forces

Kongsberg Defence & Aerospace

Nammo (Ammunition and rocket propulsion systems)



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GLOBAL LEADERS

United States (Defense technology and AI)

Russia (AI military applications)

China (Rapid advancements in defense AI)

Israel (Defense technology and cybersecurity)

United Kingdom (AI integration in defense)



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FUTURE JOBS

AI specialists in defense strategy

Cybersecurity analysts with AI expertise

Autonomous systems engineers

Ethical AI advisors in military applications

AI-driven data intelligence officers

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THE FUTURE OF AI

Advanced AI in autonomous military operations
AI-driven cybersecurity defense mechanisms
AI in global peacekeeping and humanitarian
Enhanced AI in military intelligence and recon
Ethical and controlled use of AI in defense



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RECOMMENDED READING

"Army of None: Autonomous Weapons and the Future of War" by Paul Scharre

"Wired for War: The Robotics Revolution and Conflict in the 21st Century" by P.W. Singer

"The Future of War: A History" by Lawrence Freedman

"LikeWar: The Weaponization of Social Media" by P.W. Singer and Emerson T. Brooking

"Ghost Fleet: A Novel of the Next World War" by P.W. Singer and August Cole

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GOOD TED TALKS



"The future of war, and how it affects you" by P.W. Singer

"How AI is making it easier to diagnose disease" by Pratik Shah

"How we'll fight the next deadly virus" by Pardis Sabeti

"A vision of crimes in the future" by Marc Goodman

"The surprising tactics of a data detective" by Anne Milgram

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**WHAT WOULD
YOU ADD?**

LET ME KNOW!



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