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### AI Automates Tasks Requiring Human Intelligence





Recommendations



Facial recognition

### Today, AI is Everywhere



Infrastructure



Language



Automation



Autonomous vehicles





### Deep Neural Networks (DNNs) Dominate Al Today



DNNs 'Learn' Everything from Training Data





## **AI Risks**



Failure in novel situations



Infrastructure vulnerability



Bias



Lethality



Polarization



Control



Unemployment







Policies, laws, and standards



# Mitigating AI Risks







### Safer AI designs

Safety protocols and procedures

Alerting and backup systems

Emergency Management Community			
Administration	Operations	Engineering	Research





### Conclusions

- Al technology is having an increasing impact on society
- The use of AI carries with it the risks of failure, unintended consequences, and malicious use
- The EM community has an opportunity to contribute to mitigating the risks associated with the use of AI through administration, operations, engineering, and research

