

# AI Impact Maine — ai-cybersecurity-guide (preview)

## RESOURCE 9: ai-cybersecurity-guide

### OVERVIEW

- **Audience:** All organization members
- **Primary Goal:** Security awareness + practical protection
- **Tone:** Urgent but not alarmist, empowering
- **Format:** Threat-focused + solution-focused

### LITE VERSION (6 pages)

#### Page 1: Why AI Security Matters

- New threats AI introduces
- Real incidents
- Cost of breaches
- Your role in protection

#### Page 2: Top 5 AI Security Threats

1. **Data Breach:** Sharing sensitive data with AI
2. **Prompt Injection:** Malicious inputs to AI
3. **Model Poisoning:** Bad training data
4. **Privacy Leakage:** Unintended data exposure
5. **Vendor Compromise:** Service provider breach

#### Page 3: Protection Strategies

- What NOT to do
- What TO do instead
- Safe practices
- Spotting red flags

#### Page 4: Compliance Essentials

- GDPR implications
- HIPAA for healthcare
- FERPA for education
- CCPA for California
- Your industry requirements

#### Page 5: Incident Response

- What to do if breach suspected
- Who to contact

- Documentation
- Communication

## FULL VERSION (40 pages)

### SECTION 1: AI Security Landscape (5 pages)

- How AI systems can be compromised
- Unique AI vulnerabilities
- Difference from traditional cybersecurity
- Regulatory environment
- Industry trends

### SECTION 2: Threat Deep-Dives (15 pages)

**Threat 1: Data Exfiltration via AI** - How it happens - Real examples - Detection signs - Prevention measures - Response procedures

**Threat 2: Prompt Injection & Jailbreaking** - Technical explanation - Real attacks - Warning signs - Defense strategies

**Threat 3: Model Poisoning** - What it is - How to detect - Impact - Prevention

**Threat 4: Privacy Attacks** - Re-identification - Membership inference - Model inversion - Defenses

**Threat 5: Third-Party Vendor Risk** - Supply chain risks - Vendor evaluation - Contracts and SLAs - Monitoring and auditing

**Plus 3-5 additional threats**

### SECTION 3: Compliance & Regulatory (8 pages)

**GDPR** - Data subject rights - Privacy impact assessments - Data processing agreements - Breach notification

**HIPAA** - Protected health information - Business associate agreements - Risk assessment - Audit controls

**FERPA** - Student data protection - Parental rights - Disclosure requirements - Documentation

**CCPA & State Laws** - Consumer rights - Opt-out mechanisms - Security requirements - Reporting obligations

**Industry-Specific** - Financial services (PCI-DSS) - Government (FISMA, 800-53) - Utilities (CIP) - Healthcare (HIPAA, HITECH)

#### SECTION 4: Practical Security Guide (10 pages)

**For Each Risk Category:** - What to do - What NOT to do - Tools and technologies - Configuration guidance - Monitoring and auditing

**Topics:** - Data classification and labeling - Access controls - Encryption - Data retention and deletion - Vendor management - Incident response - Employee security training - Audit trails

#### SECTION 5: Vendor Security Evaluation (4 pages)

- Vendor security requirements
- Due diligence checklist
- Questions to ask
- Red flags
- Documentation needed
- Contracts and agreements

#### SECTION 6: Incident Response (3 pages)

- Detection and response plan
- Roles and responsibilities
- Communication procedures
- Documentation
- Post-incident review