

1. IT Security Policy

Objective: Ensure confidentiality, integrity, and availability of data, systems, and AI-based products.

1.1 Data Protection

- **Encryption:** All data (at rest and in transit) encrypted using AES-256 and TLS 1.3.
- **AI Model Security:** Rigorous testing for adversarial attacks, model inversion, and data poisoning.
- **Access Control:** Role-based access (RBAC) with multi-factor authentication (MFA) for sensitive systems.

1.2 Incident Response

- **Procedure:** Immediate isolation, forensic analysis, and stakeholder notification within 2 hours of breach detection.
- **AI-Specific Threats:** Continuous monitoring for model drift and unauthorized API access.

1.3 Compliance

- Adherence to GDPR, ISO 27001, NIST AI Risk Management Framework, and CCPA.
- Regular third-party penetration testing and SOC 2 audits.

2. IT Management Framework

Objective: Streamline development, deployment, and maintenance of AI products.

2.1 Infrastructure

- **Cloud Services:** AWS/GCP/Azure with Kubernetes for scalable AI workloads.
- **Monitoring:** Real-time dashboards (e.g., Grafana) for system health, API latency, and model performance.

2.2 Software Development Lifecycle (SDLC)

- **Phases:**
 1. **Planning:** Risk assessment for AI ethics and bias.
 2. **Development:** CI/CD pipelines with automated testing (unit, integration, bias detection).

3. **Deployment:** Canary releases with rollback protocols.

2.3 Maintenance

- **Patch Management:** Monthly updates for OS, libraries, and AI frameworks (TensorFlow, PyTorch).
- **Disaster Recovery:** Geo-redundant backups and 99.9% uptime SLA.

3. HR Management Policies

Objective: Foster a skilled, ethical, and security-conscious workforce.

3.1 Recruitment & Training

- **Hiring:** Background checks for roles handling sensitive data or AI models.
- **Training:**
 - Annual workshops on AI ethics, GDPR, and cybersecurity.
 - Certifications (e.g., AWS Certified ML Specialist, CISSP).

3.2 Employee Conduct

- **Code of Ethics:** Prohibition of unauthorized data use or biased AI model development.
- **Confidentiality:** NDAs for all employees and contractors.

3.3 Performance Management

- **KPIs:** Alignment with project milestones (e.g., model accuracy, compliance deadlines).
- **Whistleblower Policy:** Anonymous reporting channels for ethical concerns.

4. Other Management Policies

4.1 Risk Management

- **AI Risk Assessment:** Bias audits, explainability reports, and environmental impact analysis.
- **Vendor Management:** Third-party vendors must comply with ISO 27001 and GDPR.

4.2 Compliance & Governance

- **AI Governance Board:** Oversees ethical AI use, chaired by CTO and legal counsel.
- **Documentation:** Maintained for audit trails, model versions, and data lineage.

4.3 Customer Assurance

- **SLAs:** 24/7 technical support, incident resolution within 6 hours.
- **Transparency:** Provide model explainability reports and data usage policies to clients.

5. Conclusion

This document validates [Company Name]'s commitment to delivering secure, ethical, and high-quality AI solutions. Our policies align with global standards and ensure resilience against evolving threats.

Appendices:

- References: ISO 27001, NIST AI RMF, GDPR.
- Contact: [Security Team Email, Compliance Officer Phone].