

Phase V - Recovery

- ☐ Audit internal data access for affected system(s)
 - ☐ Monitor system(s) outputs
 - ☐ Calibrate probabilities
 - ☐ Monitor vectors of ex-filtration:
 - ☐ Authentication or throttling for AI system endpoints
 - ☐ HTTPS inspection via proxy and SSL intercept
 - ☐ Unknown or unauthorized outbound encrypted communication
 - ☐ Updated documentation and inventory to reflect all existing AI systems
 - ☐ Establish reproducibility benchmarks for affected system(s)
 - ☐ Prior to deployment, perform:
 - ☐ Model debugging:
 - ☐ Residual analysis and explanation
 - ☐ Sensitivity analysis
 - ☐ White-hat attacks
 - ☐ Assess post-hoc explanation
 - ☐ Disparate impact analysis
 - ☐ Restrict access to sensitive data
 - ☐ Review:
 - ☐ Personnel permissions
 - ☐ Feature engineering for data poisoning and opaqueness
 - ☐ Third-party and open source AI software
- ☐ Ensure functionality of:
 - ☐ System “kill switches”
 - ☐ Appeal processes
 - ☐ Data integrity constraints
 - ☐ Interpretable AI systems
 - ☐ Model decommissioning
 - ☐ Model monitoring systems with real-time alerts:
 - ☐ Comparison to benchmark model predictions
 - ☐ Disparate impact
 - ☐ Duplicate data
 - ☐ High usage
 - ☐ Input data anomalies
 - ☐ Input drift
 - ☐ Prediction drift
 - ☐ Random data
 - ☐ Training data
 - ☐ Operator override
 - ☐ Applicable privacy enhancing technologies:
 - ☐ Differentially private data aggregation
 - ☐ Federated learning
 - ☐ Version control all AI system software

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