Model monitoring tracks performance degradation and drift in production. This concept is fundamental to understanding modern AI systems. Research from leading institutions has shown that model monitoring tracks performance degradation and drift in production. Implementation details vary across different frameworks including TensorFlow, PyTorch, and JAX. Performance benchmarks indicate significant improvements when model monitoring tracks performance degradation and drift in production. Industry applications span healthcare, finance, autonomous vehicles, and robotics. Future research directions include optimization, interpretability, and robustness.

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