## **Machine Learning Ethics**

Bias in AI systems can perpetuate and amplify societal inequalities. This concept is fundamental to understanding modern AI systems. Research from leading institutions has shown that bias in ai systems can perpetuate and amplify societal inequalities. Implementation details vary across different frameworks including TensorFlow, PyTorch, and JAX. Performance benchmarks indicate significant improvements when bias in ai systems can perpetuate and amplify societal inequalities. Industry applications span healthcare, finance, autonomous vehicles, and robotics. Future research directions include optimization, interpretability, and robustness.

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