

Interpreting Neural Network Judgments via Minimal, Stable, and Symbolic Corrections Xin Zhang, Armando Solar-Lezama, and Rishabh Singh

Motivation

Ssas I

Interpretability is crucial for trusting AI and machine learning

AI, Please Explain Yourself

By Ilknur Kaynar Kabul on Subconscious Musings | December 18, 20

February 1, 2018 By Henry S. Kenyon

Researchers develop ways to help machines account for their decisions.

COMPUTERWORLD

Why businesses will have to explain their AI

xperts believe that organisations will need to be able to explain decision made by AI systems

Stuart Corner (Computerworld New Zealand) 21 February, 2018 14:42

he algorithms underpinning todays artificial intelligence and machine learning egislation being introduced in Australia and Europe will require any companies doing business in those areas to explain decisions made using AI.



General Data Protection Regulation (enacted 2016, taking effect 2018)

- Grants consumers a "right to explanation"
- Fine for violations: up to 10 million EURO



We focus on neural networks with **ReLU** activations:

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Our algorithm is inspired by concolic testing:











Problem Definition











Drawing Tutorial

Network structure: convolutional network with 4096 neurons

Dataset: 0.12 million variants of a canonical cat drawing and 0.12 million other cat drawings

