

# Holding AI Accountable

Short answers to 'What are you actually doing in your *Ph.D.?*'

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2026-02-25

# The Ground Truth (Reality)

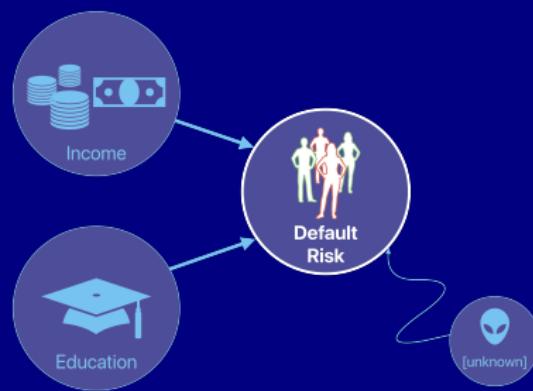


Figure 1: Predictors of default risk.

## The Ground Truth (Reality)

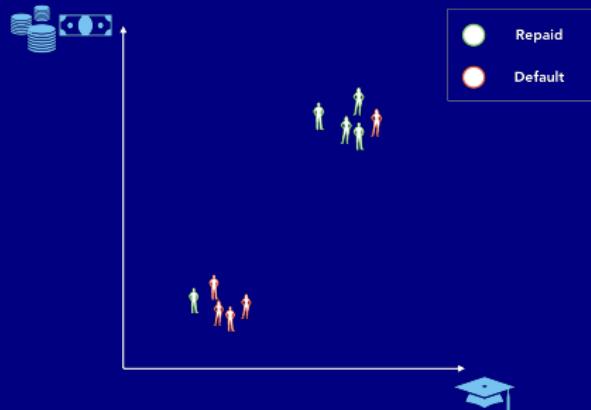


Figure 2: Ground truth outcomes across two predictors.

# Black-Box AI

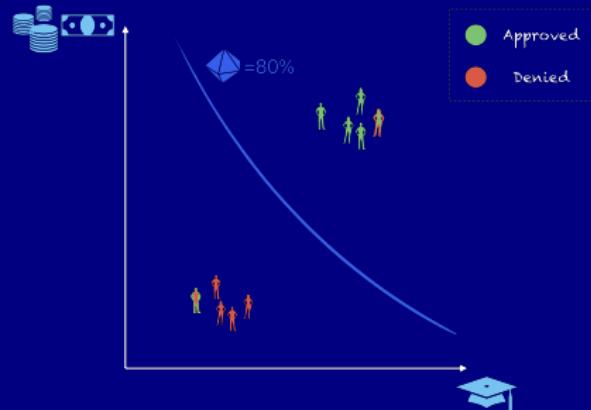


Figure 3: Classifier predicts correctly 8 out of 10 times.

# Black-Box AI

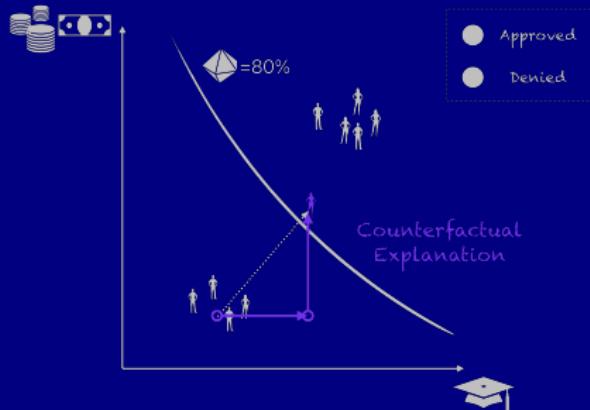


Figure 4: Simple counterfactual explanation for the black-box AI. (Chapter 2)

# Black-Box AI



Figure 5: One happy recourse recipient, many losers. (Chapter 3)

# Black-Box AI

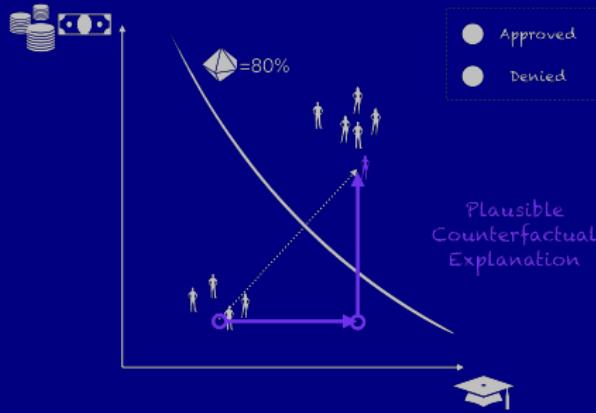


Figure 6: Plausible counterfactual explanations for the black-box AI. (Chapter 3)

# Black-Box AI

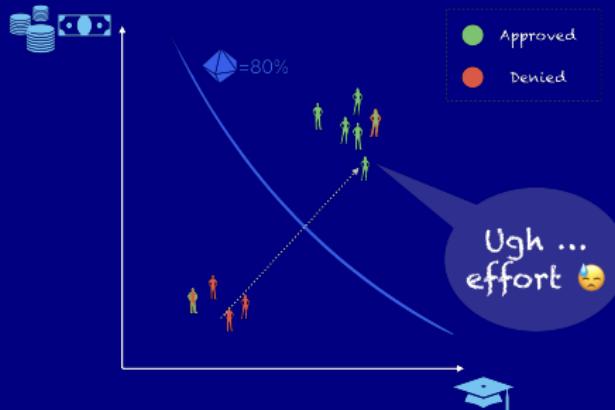


Figure 7: One somewhat happy recourse recipient, no losers. (Chapter 3)

# Big, Beautiful Black-Box AI

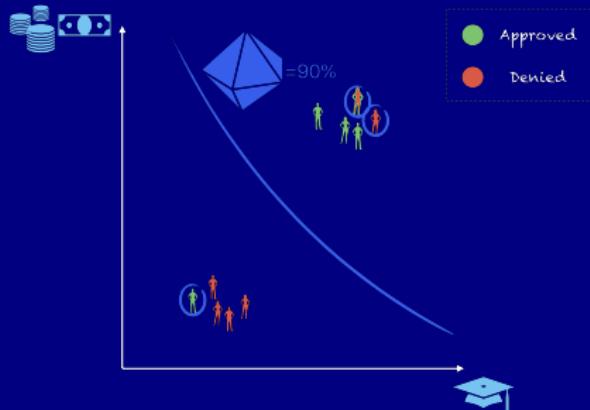


Figure 8: Classifier predicts correctly 9 out of 10 times. But ... (Chapter 4)

# Big, Beautiful Black-Box AI

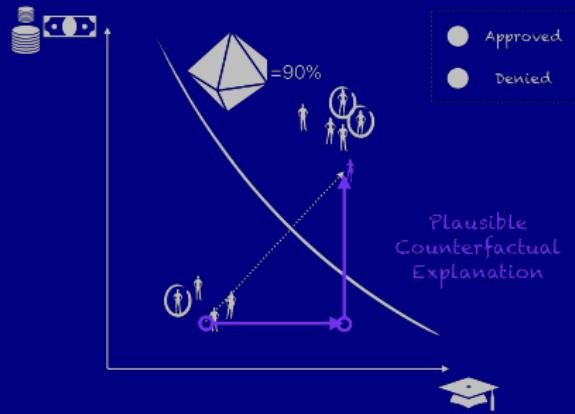


Figure 9: Plausible counterfactual explanations remains valid. Happy days?  
(Chapter 4)

# Big, Beautiful Black-Box AI

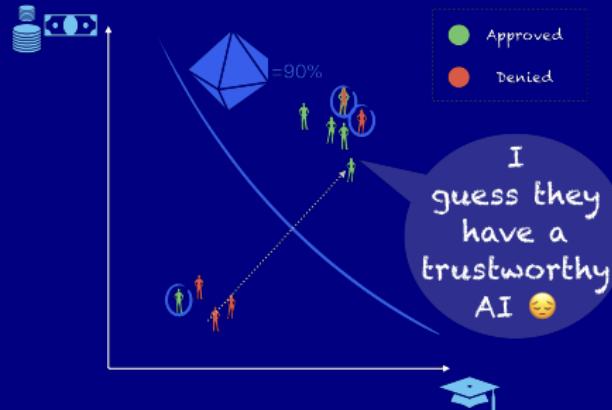


Figure 10: White-washed black-box: plausible CE hides bias. (Chapter 4)

# Holding Models Accountable

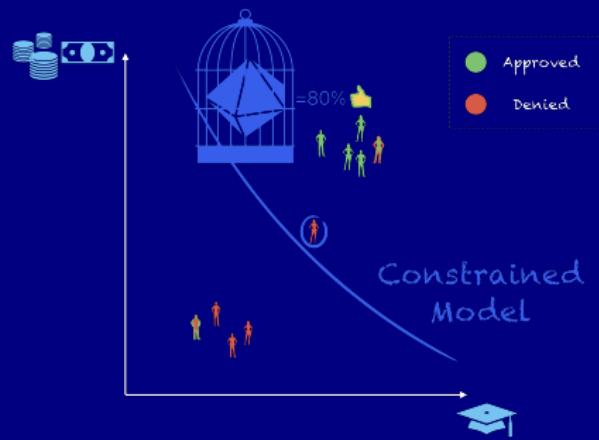


Figure 11: A model trained to use plausible explanations for predictions.  
(Chapter 5)

'ok but agi bruh'

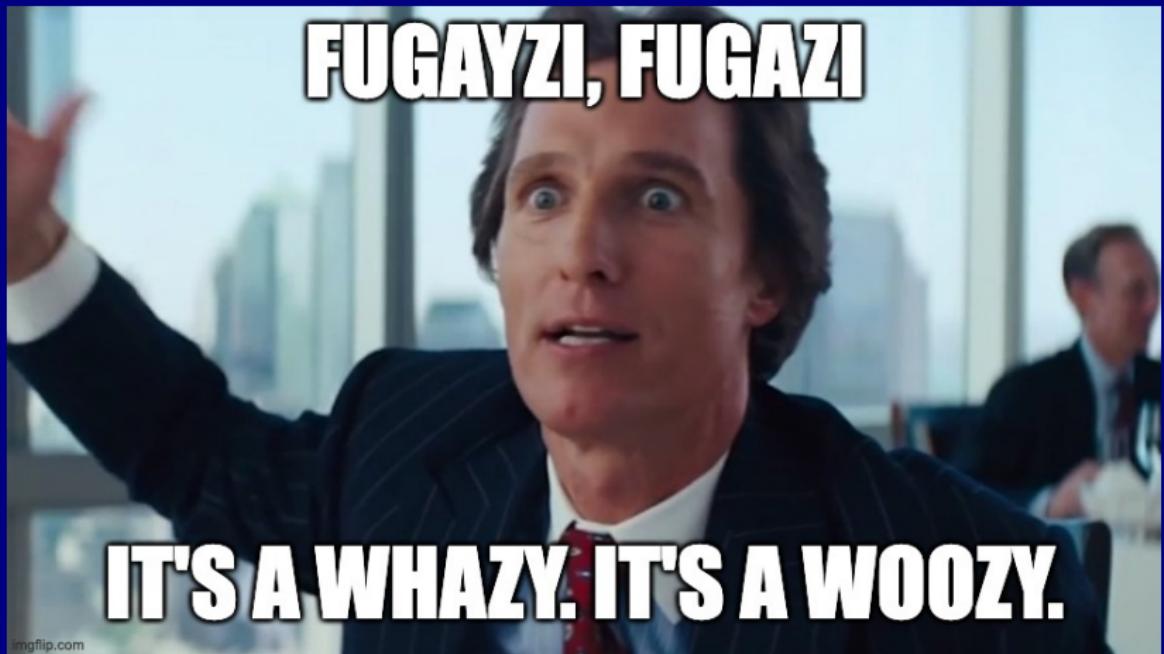


Figure 12: My personal take on “AGI by 2027”. (Chapter 6)