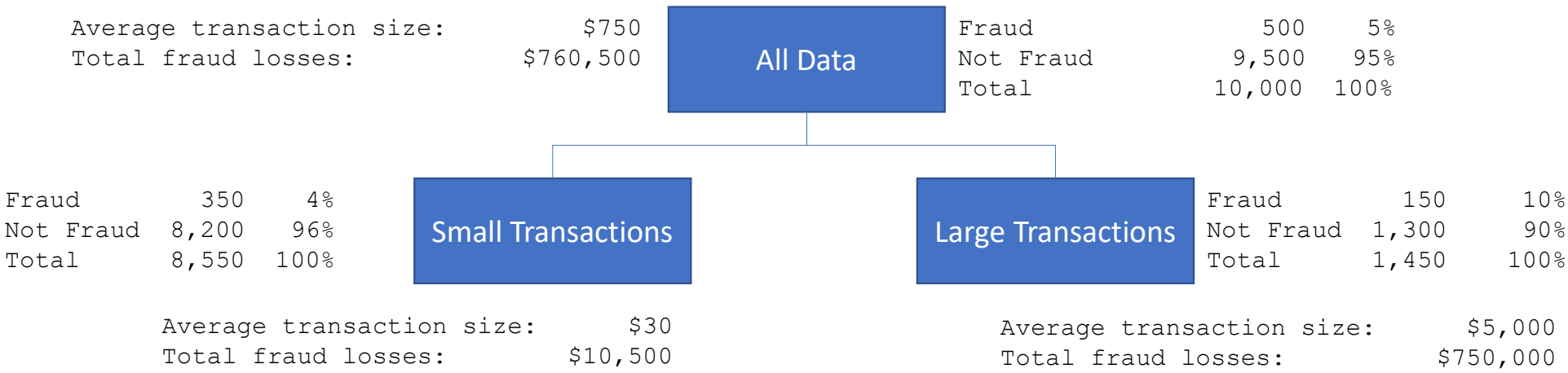


Fraud Example



Cost to review potential fraud case = \$150

Baseline:
Benefit from fraud capture: \$ 760,500
Cost to review all cases: \$ 1,500,000

Net Benefit: \$ -739,500

Large Transactions:
Benefit from fraud capture: \$ 750,000
Cost to review all cases: \$ 217,500

Net Benefit: \$ +532,500

Entropy increases in the large transaction node.
Profitability occurs post-split.
Information value is insufficient.

Root causes:
--- Imbalanced dataset
--- Financial model not 1:1 with purity of nodes