Anchor Explanations

Sufficient Conditions with High Precision

⚓ ANCHOR RULE EXAMPLE

IF Age > 30 **AND** Income > 50K **THEN** Approve
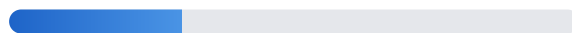
PRECISION

0.95

Accuracy when rule applies

COVERAGE

0.30

Fraction of instances covered

Covered Region Visualization

Key Features

Advantages

✓ More stable than LIME

✓ Human-readable rules

✓ High confidence regions

✓ Less perturbation-sensitive

Sufficient Conditions
Rules that guarantee prediction
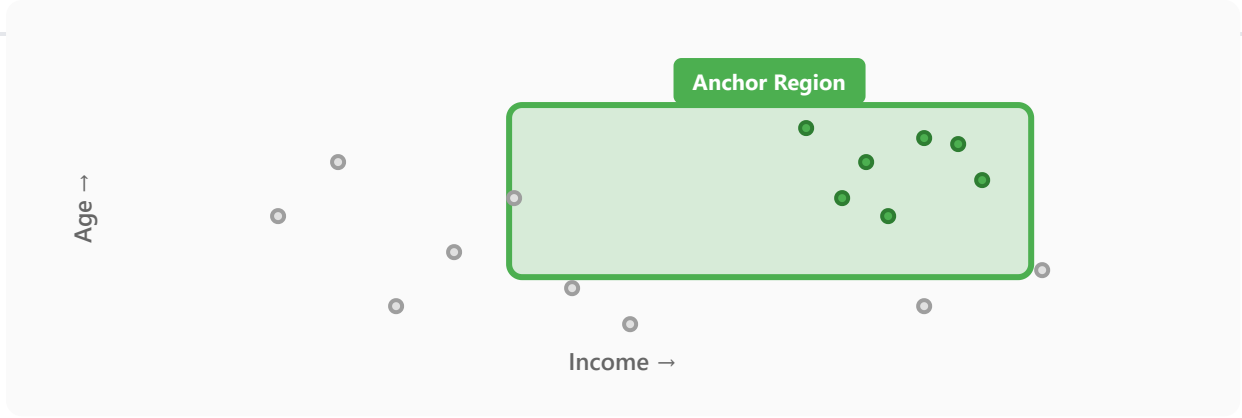
Precision Metric
Rule accuracy on samples

Coverage Metric
Fraction where rule applies

Beam Search
Finds optimal anchor rules

Implementation

Anchor Region

Age →

Income →