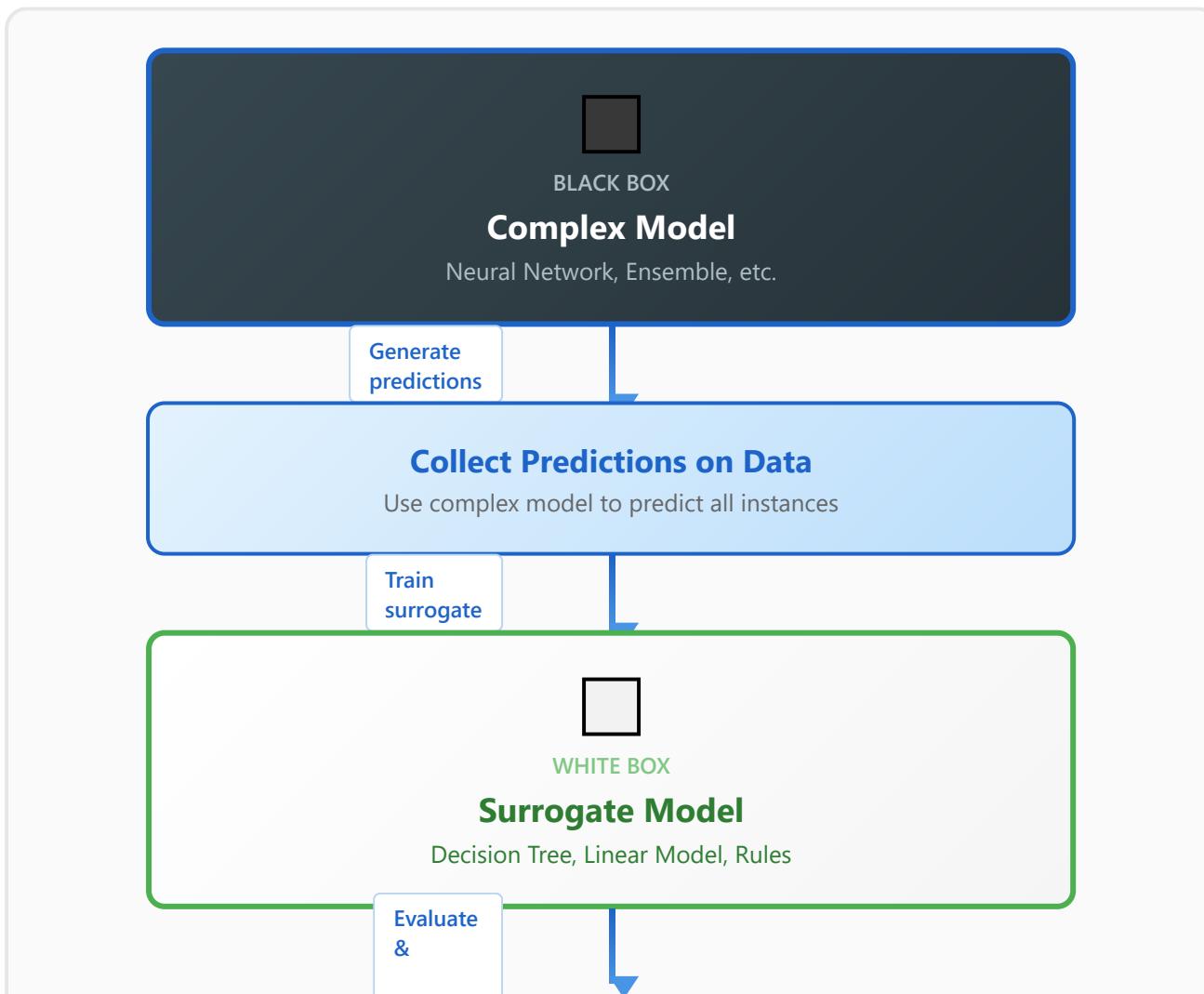


Surrogate Models

Approximating Black-Box with Interpretable Models

Surrogate Model Process



Key Concepts

Types

Global Surrogate

Mimic entire model behavior

Local Surrogate

Approximate specific region

Fidelity

How well surrogate matches original

Advantages

Leverage simple model interpretability

Limitations

May not capture full complexity

Use Cases

Compression, explanation, debugging

Common Surrogates

Interpret Surrogate

Extract insights and explanations

- Decision Trees
- Linear Models
- Rule Sets
- Generalized Additive Models