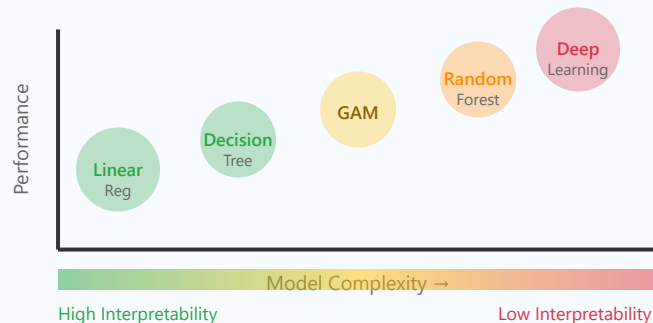


Interpretable ML for Clinical Adoption

⚠ **Black Box Problem:** Clinicians won't trust models they can't understand

Glass Box Models

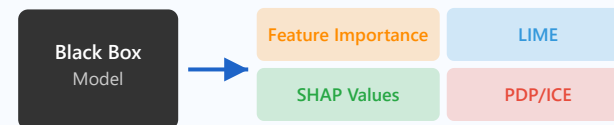
Interpretability-Performance Trade-off



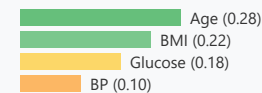
- Linear/Logistic Regression
 - Decision Trees
 - GAMs (Generalized Additive Models)
 - Rule-based systems
- Inherently interpretable*

Post-hoc Explanations

Making Black Boxes Transparent



Example: Feature Importance



- Feature Importance (RF, XGBoost)
 - Partial Dependence Plots
 - LIME (Local Interpretable)
 - SHAP Values
- Explain black boxes*

Clinical Acceptance Requires: Model explanation + Clinical validation + Physician trust + Regulatory approval