

# Model Exploration Stack

**What is the model prediction for the selected instance?**

**How good is the model?**

*ROC curve  
LIFT, Gain charts  
Chapter 15*

**Which variables contribute to the selected prediction?**

**Which variables are important to the model?**

*Break Down  
SHAP, LIME  
Chapters 6, 7, 8, 9*

*Permutational  
Variable Importance  
Chapter 16*

**How does a variable affect the prediction?**

**How does a variable affect the average prediction?**

*Ceteris Paribus  
Chapters 10, 11*

*Partial Dependence Profile  
Accumulated Local Effects  
Chapters 17, 18*

**Does the model fit well around the prediction?**

**Does the model fit well in general?**

*Chapter 12*

*Chapter 19*

**PREDICTION LEVEL  
LOCAL EXPLANATIONS**

**MODEL LEVEL  
GLOBAL EXPLANATIONS**