



Surrogate Models

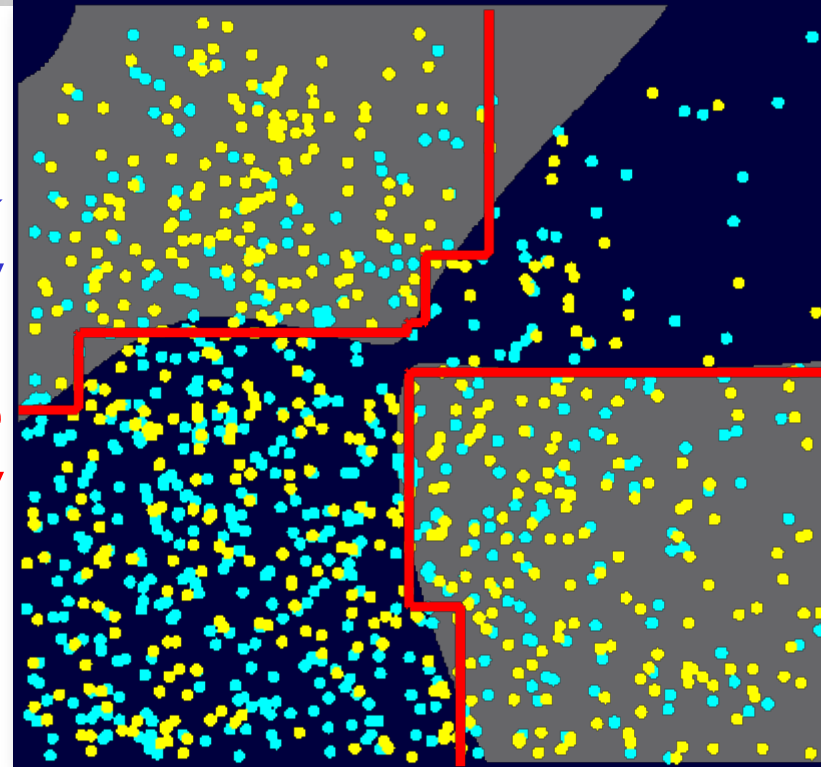
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Surrogate Models

*neural network
decision boundary*

*surrogate
decision boundary*

Approximate an
inscrutable model's
predictions with a
decision tree.





Demo

- Drag a **Metadata** tool (from Utility tab) into the diagram workspace.
- Connect the **Neural Network** node to the **Metadata** node.
- Drag a **Decision Tree** node (from Model tab) into the diagram workspace.
- Connect the **Metadata** node to the **Decision Tree** node.
- Rename the Decision Tree node **Surrogate Tree**.
- Scroll down to the Variables section in the Metadata node properties. Select **Train**. The Variables window appears.
- Select **New Role** \Rightarrow **Target** for **D_TARGET_B**.
- Select **New Role** \Rightarrow **Rejected** for **TARGET_B**.
- Run the Decision Tree node. View the results. Select **View** \Rightarrow **Model** \Rightarrow **Subtree Assessment Plot** from the Decision Tree results.