Why Should I Trust You?

Local **I**nterpretable **M**odel-agnostic **E**xplanations

LIME

"... machine learning models remain mostly **black boxes**."

Ribeiro, M , et. al 2016

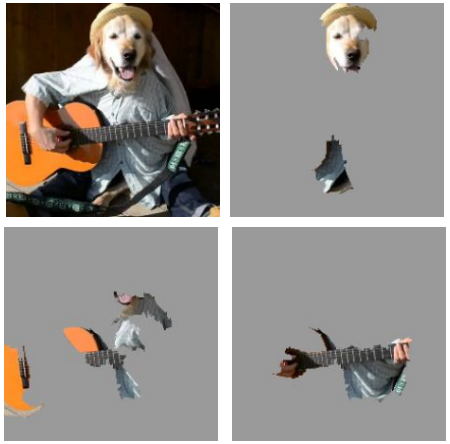
HUSKY classified as **WOLF**

LIME's Explanation

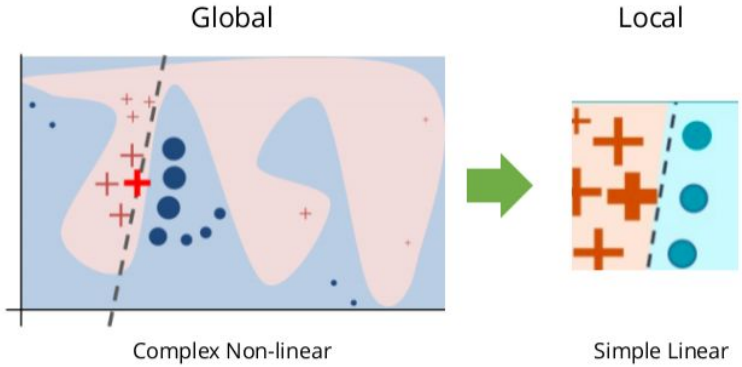
THE WHY

Explanations' Desiderata

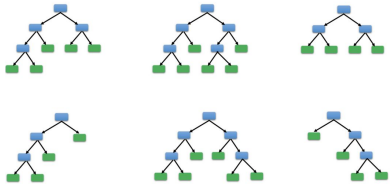
Meaningful

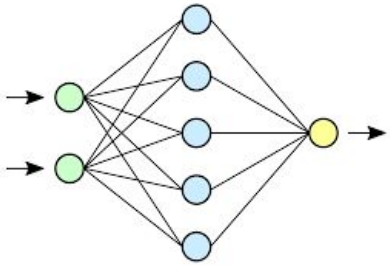


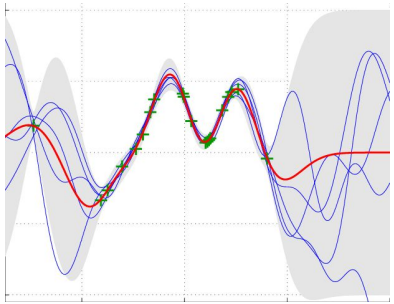
Locally Faithful



Model Agnostic







Friendly Data Representation

Images Space
m x m x 3 dimensions

SuperPixels Space
[100 dimensions]

Friendly Data Representation

vector

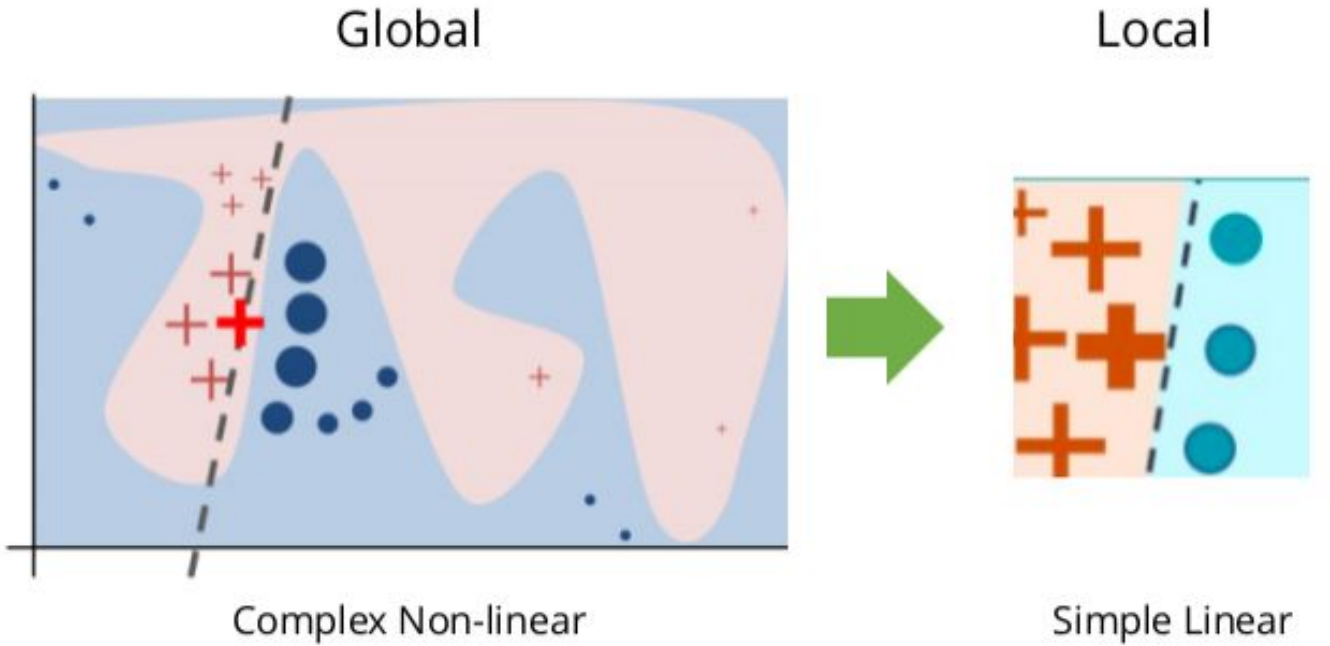
SP	ON
1	**1**
2	**1**
3	**1**
...	**1**
98	**1**
99	**1**
100	**1**

Friendly Data Representation

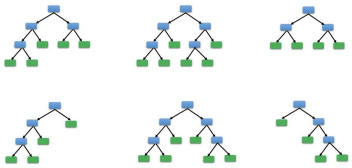
vector

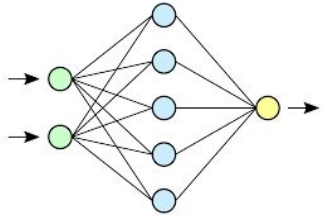
SP	ON
1	**1**
2	**1**
3	**0**
...	**...**
98	**0**
99	**1**
100	**0**

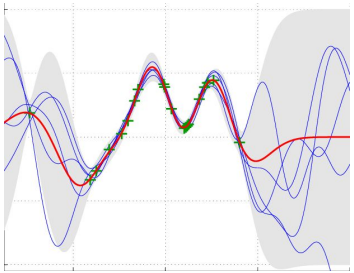
Locally Faithful



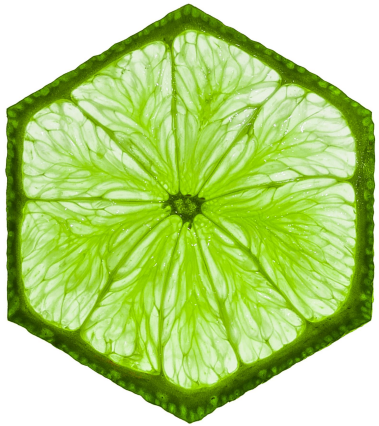
Model Agnostic







EXPLANATIONS



TRUST?

https://github.com/ed-ortizm/**AID-explain-me-why** ?

I guess there is no option…