

Quellen_und_Bilder

June 2, 2021

1 Links and Images

Grundlage:

- <https://fast.ai> // <https://course.fast.ai>

Quellen:

- <https://github.com/marcotcr/lime>
- https://github.com/fastai/fastai/blob/master/nbs/73_callback.captum.ipynb

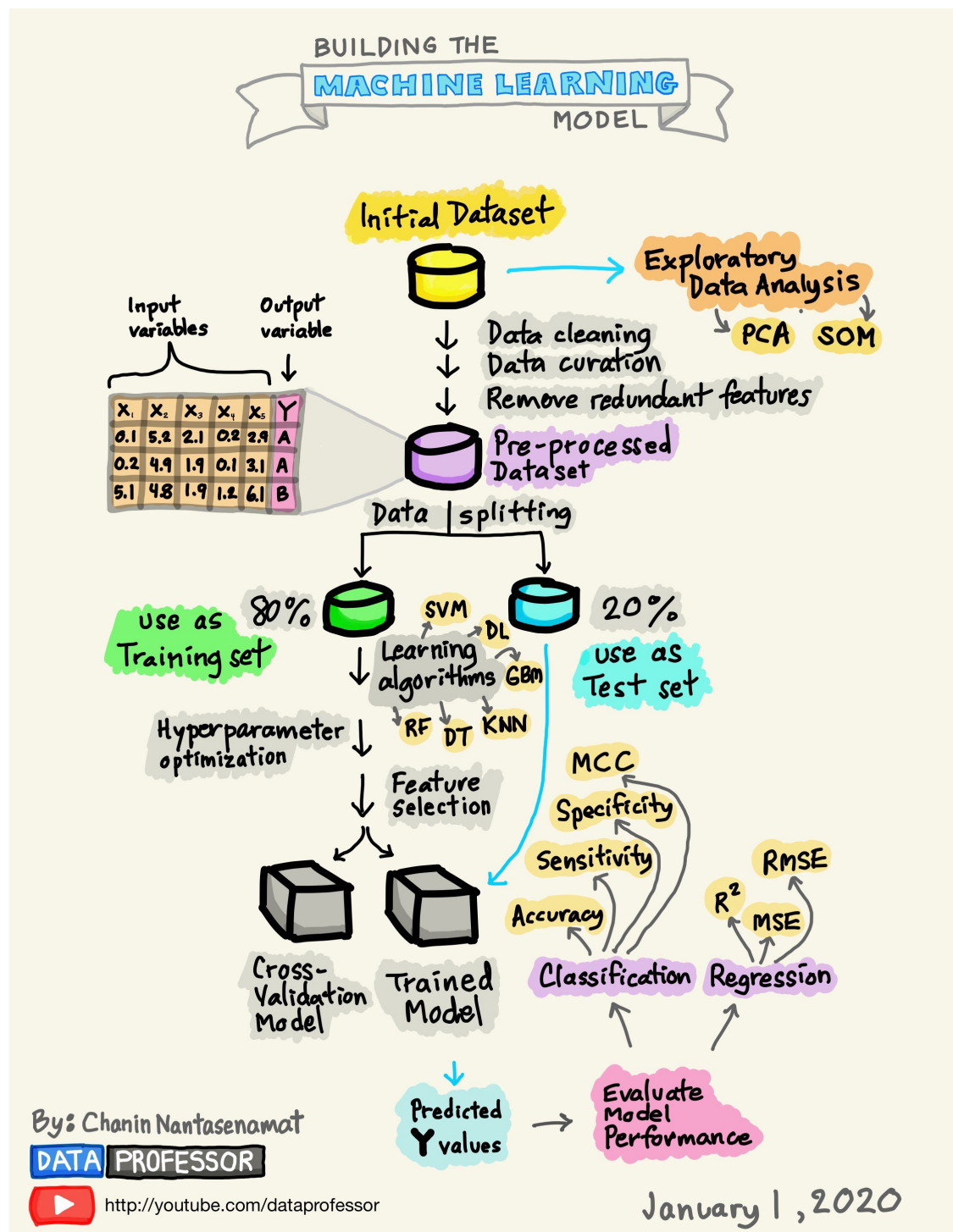
Weiterführend:

- <https://walkwithfastai.com>
- <https://captum.ai>

Theorie:

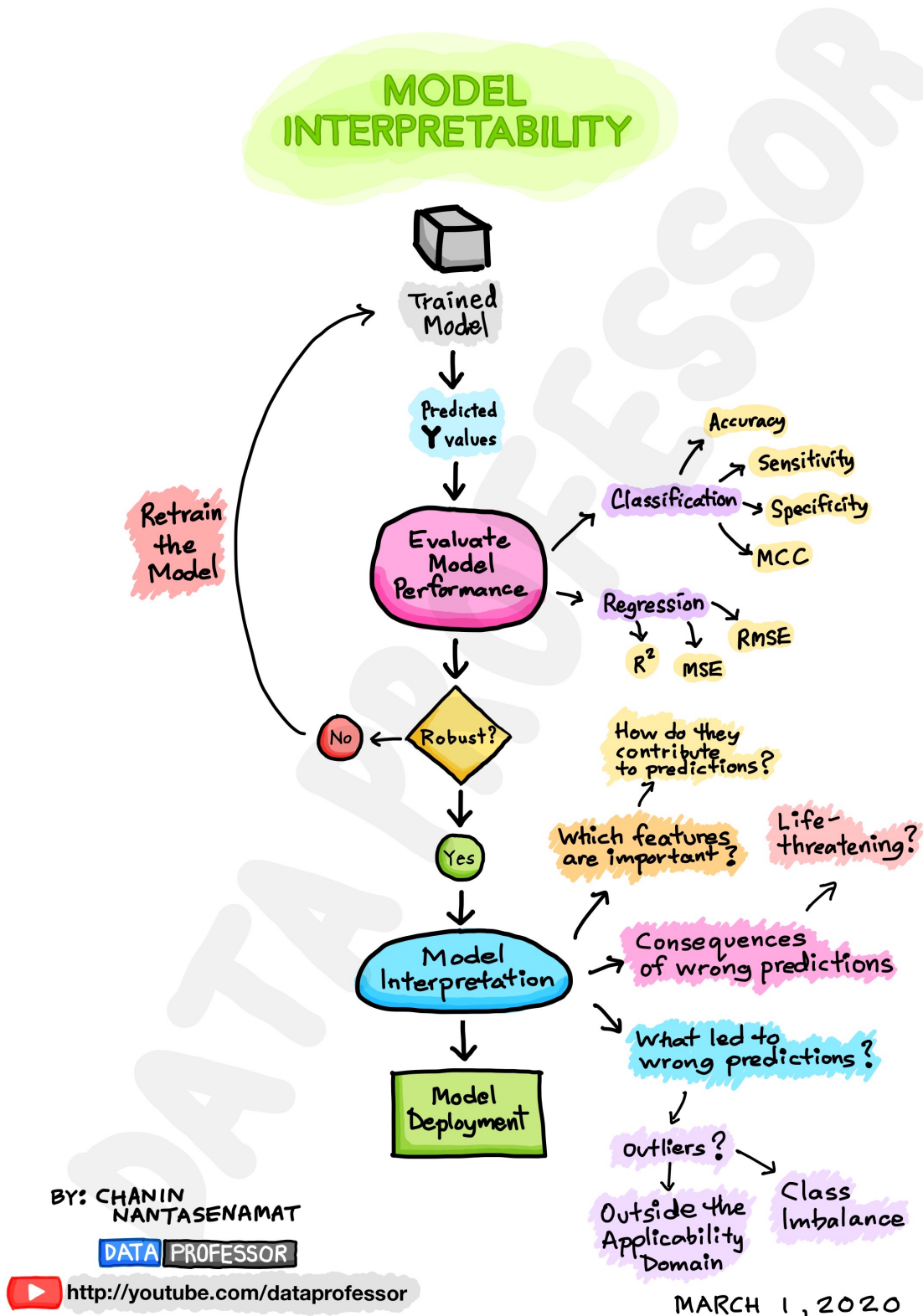
- <https://towardsdatascience.com/idea-behind-lime-and-shap-b603d35d34eb>

1.1 Bilder



Source:

<https://github.com/dataprofessor/infographic/blob/master/01-Building-the-Machine-Learning-Model.JPG>

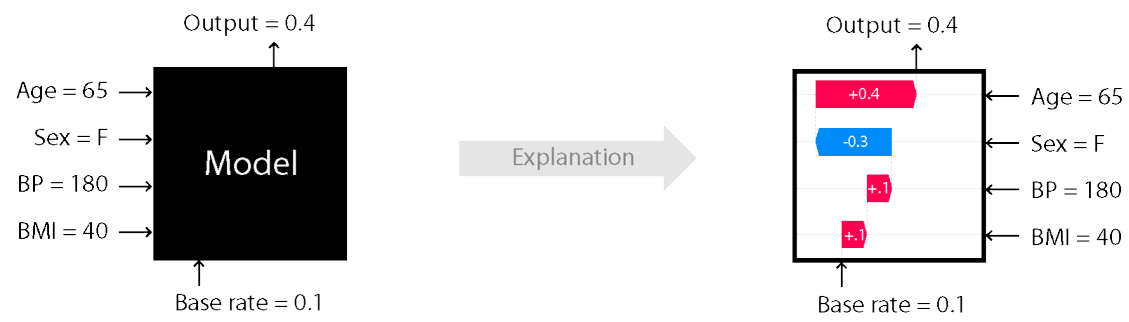


Source:

<https://raw.githubusercontent.com/dataprofessor/infographic/master/05-Interpretability-of-Data-Science-Models.JPG>



SHAP



<https://github.com/slundberg/shap>

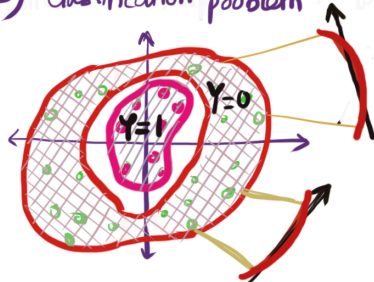
Source:

Model Explainability_ (degree of explainability)

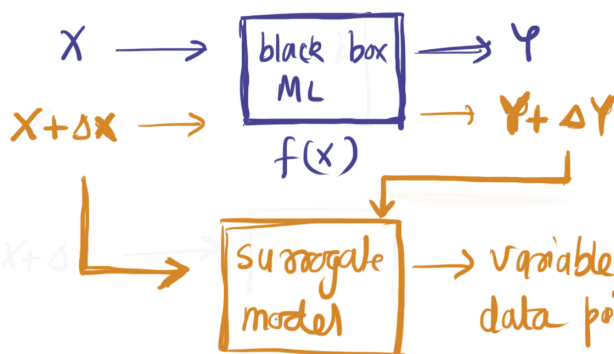
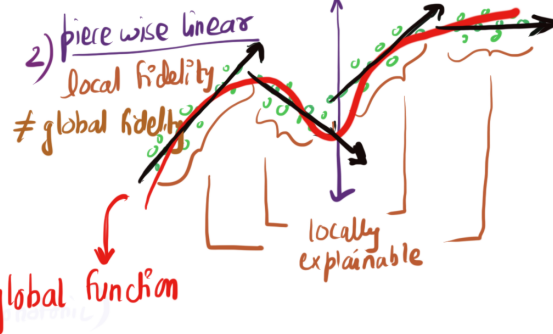
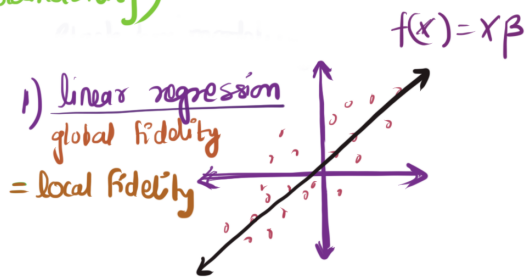
- 1) linearity
 - 2) monotonicity
- make predictions easier & reliable

$f: X \rightarrow Y$ (mapping from x to y by f)

- 3) classification problem



globally : complex boundary
locally : linear boundaries



ΔX : small change in X
 ΔY : small change in Y

<https://towardsdatascience.com/idea-behind-lime-and-shap-b603d35d34eb>

Source: