



Explainable AI: Machine Learning for Humans





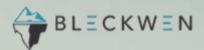
Leonardo Noleto

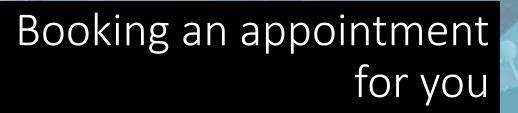
Bleckwen Senior Data Scientist



Artificial Intelligence is Everywhere









Hair Salon



"Hi, I'm calling to book a women's haircut for a client."



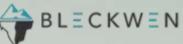
"Sure, give me one second."



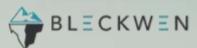




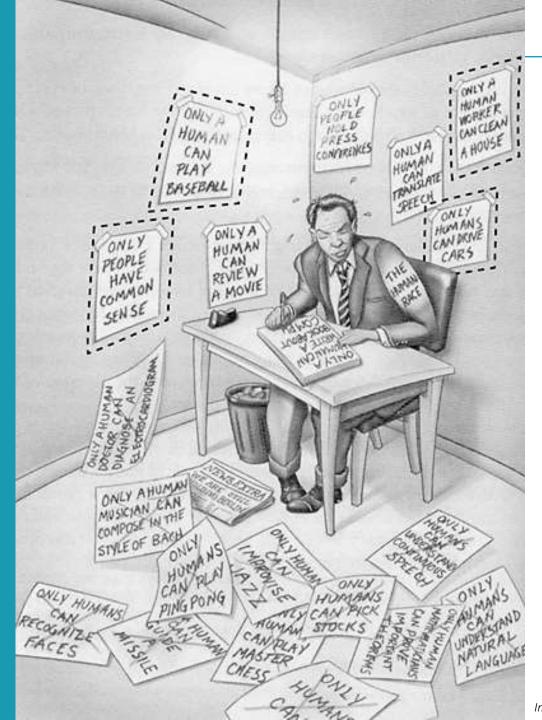












When a task can be automated at a low cost, the task will be automated.





Augmented Human Autonomous Al

Human-in-the-loop

Human-out-of-the-loop





We believe in a collaboration between Human and Artificial Intelligence.

Interpretability is the key enabler.







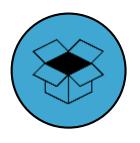
"Interpretability is the degree to which a human can understand the cause of a decision."

Miller, Tim. 2017. "Explanation in Artificial Intelligence: Insights from the Social Sciences."





Why do we need interpretability?



STRENGTHEN TRUST AND TRANSPARENCY



EXPLAIN DECISIONS



SATISFY REGULATORY REQUIREMENTS

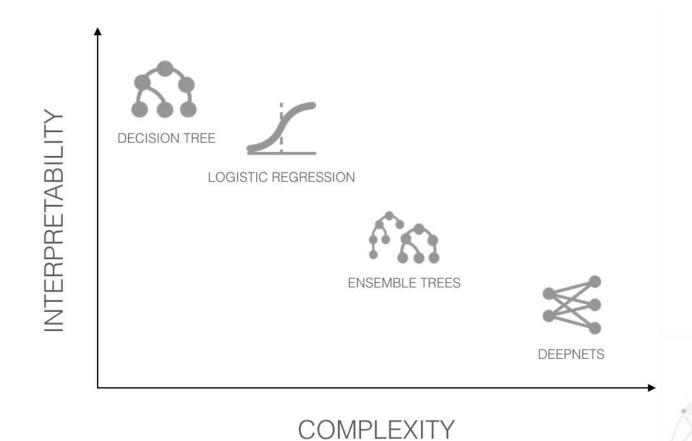


IMPROVE MODELS

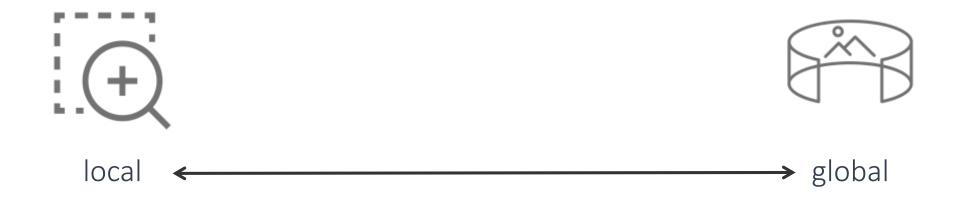




But what about the trade-off Accuracy vs. Interpretability?

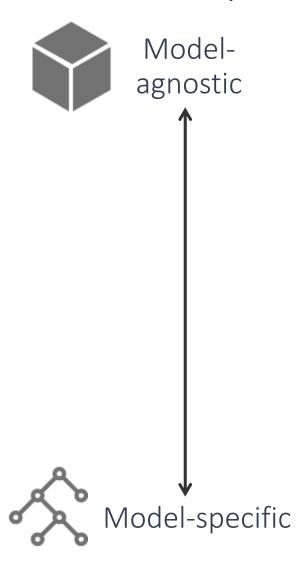






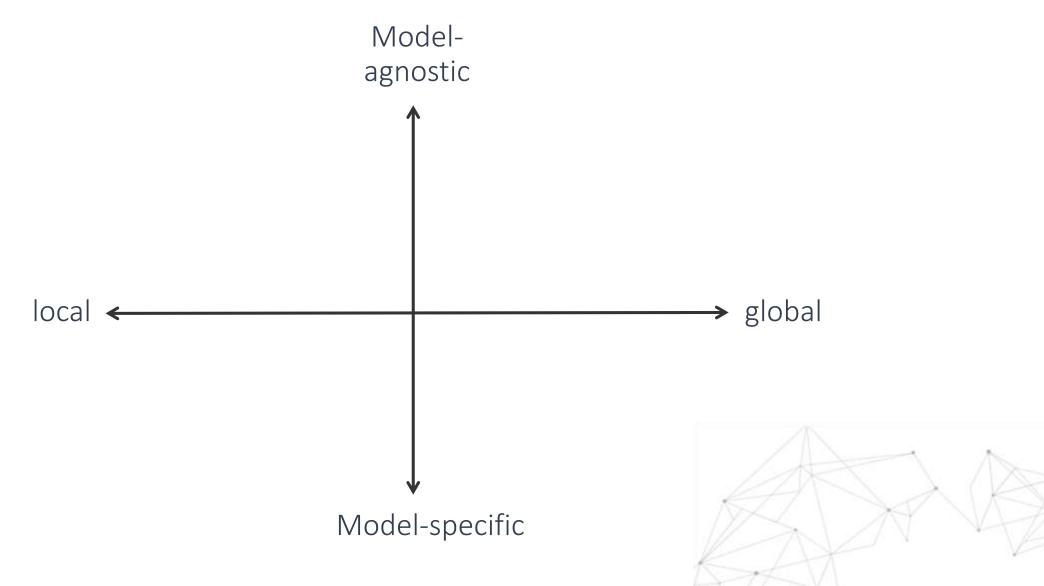




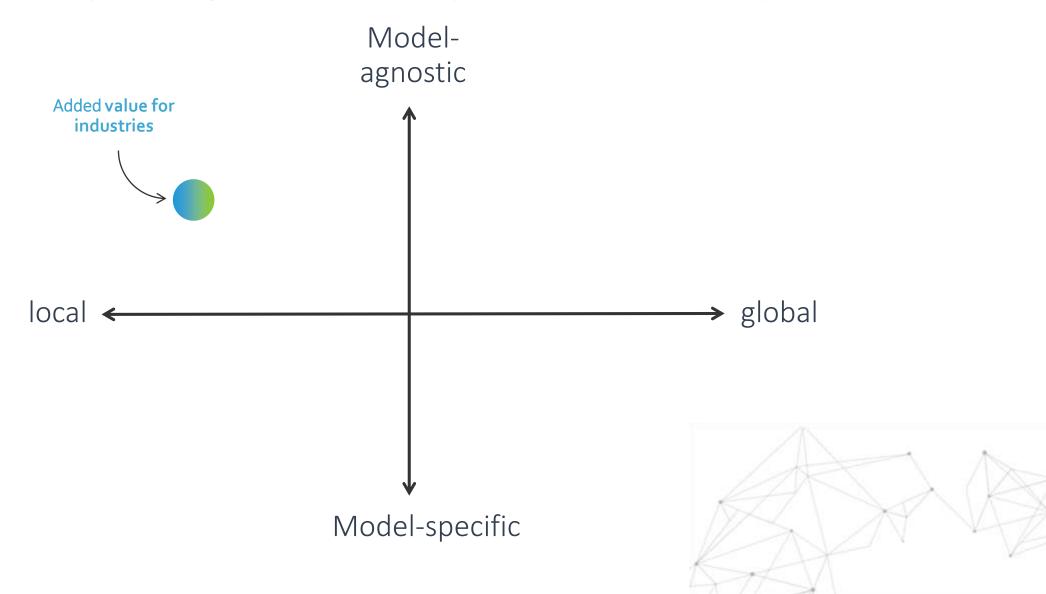










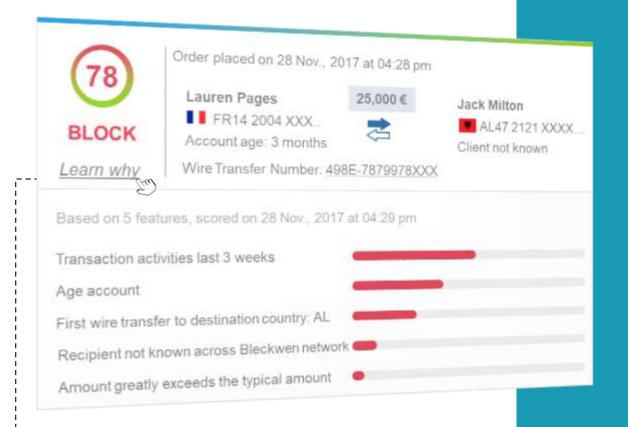




How we are helping the banking industry accelerate the adoption of AI?







Our clients are fighting against financial fraud with the power of Machine

Learning and the Behavioral Profiling while keeping decisions

interpretable.



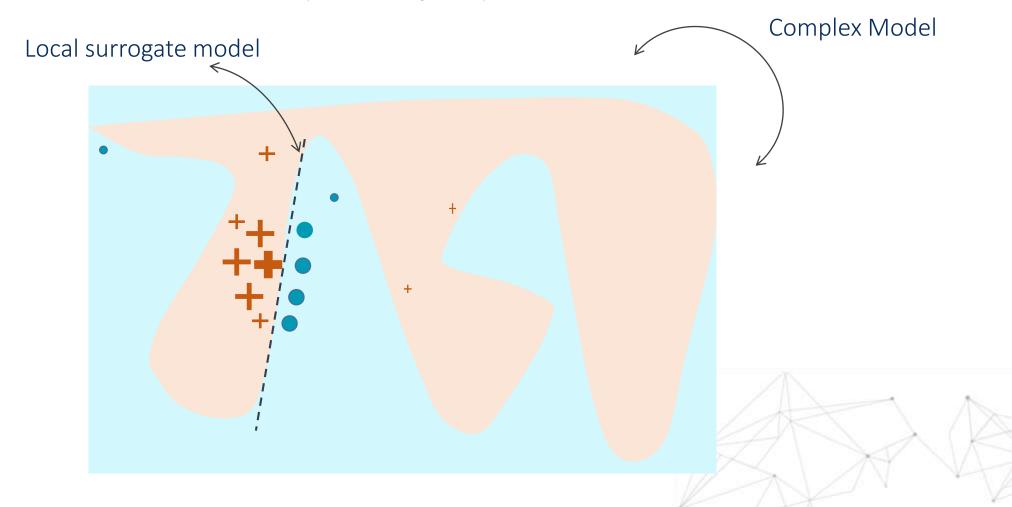
How is that possible?





Introducing LIME

Local Interpretable Model-Agnostic Explanations





Introducing LIME

Local Interpretable Model-Agnostic Explanations



Extracting explanations from a linear model



We combine best-in-class Machine Learning models with

interpretation technologies to get the best from

a collective artificial and human intelligence









Collaboration between
Human Being and Artificial Intelligence will
secure the world.



Thank you for your attention.



Anti-fraud solution for banks

www.bleckwen.ai