Why should I trust you?



Member of the basefarm group



Definition 5. An n-dimensional differentiable manifold \mathcal{M} is an n-dimensional manifold equipped with a fixed differentiable structure.

It is often useful to regard a manifold as a global object constructed from locally Euclidean pieces.

Remark 2. If $\{\varphi_{\alpha}: \mathcal{U}_{\alpha} \to \mathcal{U}'_{\alpha}: \alpha \in A\}$ is a smooth atlas for a differentiable manifold \mathcal{M} , then \mathcal{M} can be reconstructed from the disjoint union of charts as

$$\mathcal{M} = \left(\coprod_{\alpha \in A} \mathcal{U}'_{\alpha} \right) / \sim$$

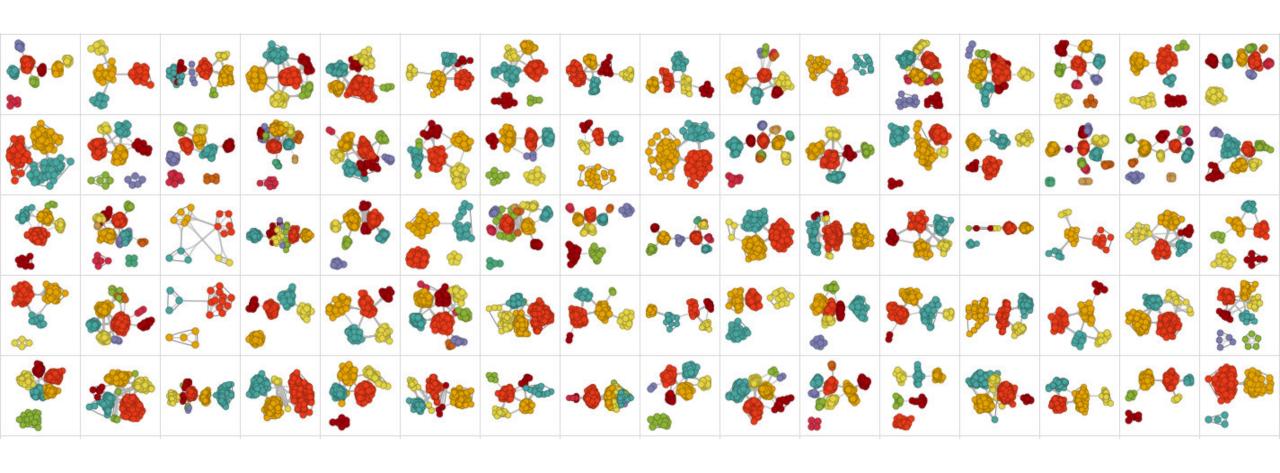
where the equivalence relation is

$$\mathcal{U}_{\alpha}' \ni p \sim q \in \mathcal{U}_{\beta}'$$
 if and only if $(\varphi_{\beta} \circ \varphi_{\alpha}^{-1})(p) = q$.

One just needs to check that the resulting space is Hausdorff.

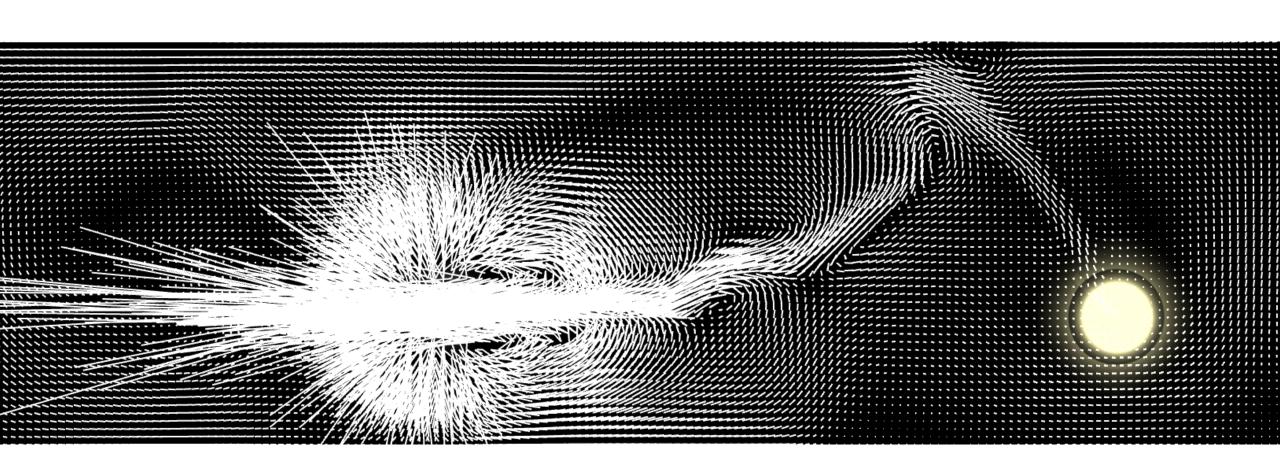


Why should I trust a statistical model?



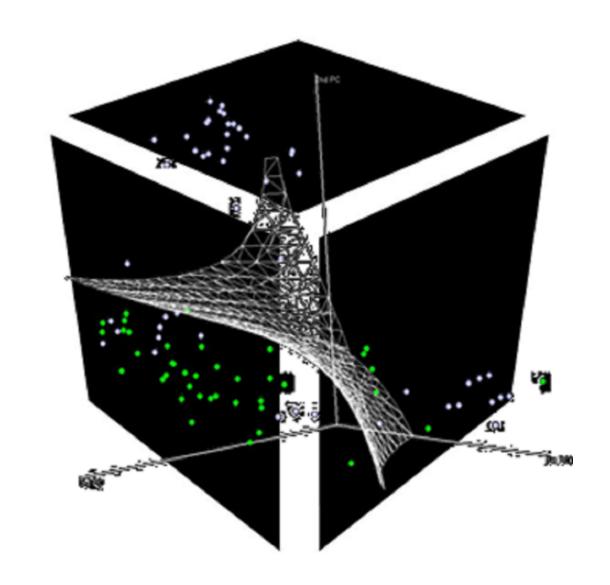


Three waves of Al

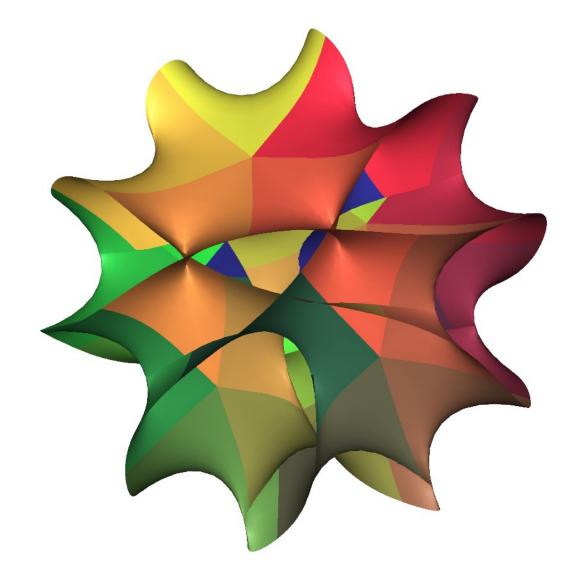




Black box Al







Manifolds

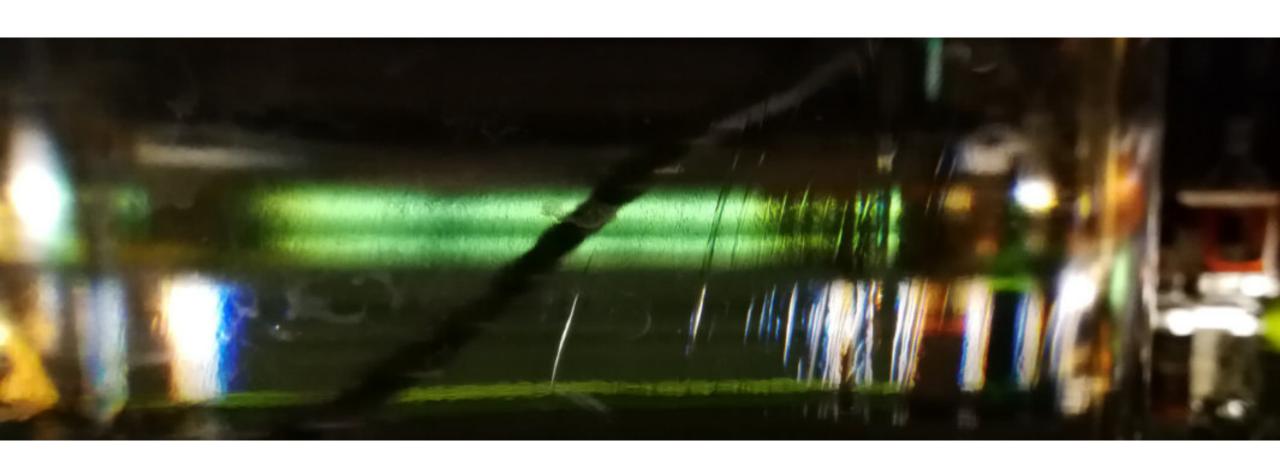


White box AI - transparent AI





Local interpretable model-agnostic explanations





From data to rules – and the other way around

