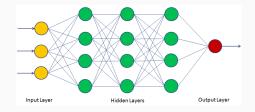
10 minutes4 slides15 images

Frederik Hvilshøj — Data-Intensive Systems Group

Computer Science and Electrical and Computer Engineering

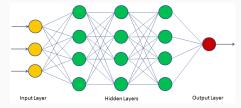
Ira Assent and Alexandros Josifidis





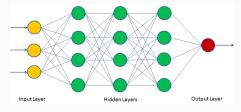








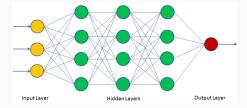




smiling

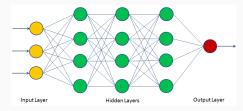








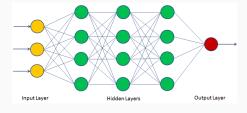




not smiling



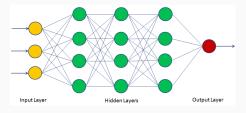




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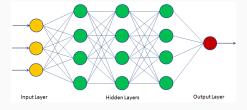


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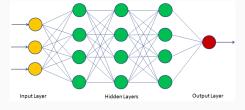


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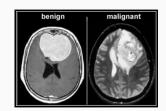




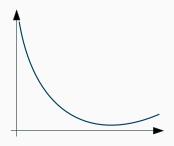


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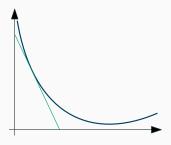




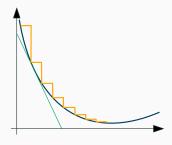




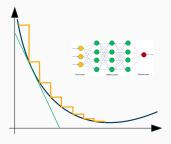




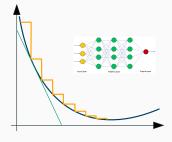






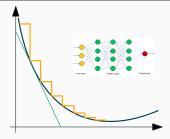








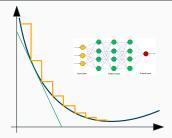




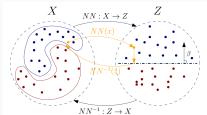


Interpretable counterfactual explanations guided by prototypes AVIn Loweren, J. Risiles - at Vir perprint arXiv:1907.0584, 2019 - anvivorg We propose a fast, model agnostic method for finding interpretable counterfactual explanations of classifier predictions by using class prototypes. We show that class prototypes, obtained using either an encoder or through class specific kid trees, significantly special up the teach for counterfactual instances and result in more interpretable explanations. We introduce no more interfacts in quantitatively explanation for interpretable special prototypes. The control of the control of

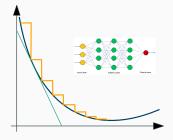




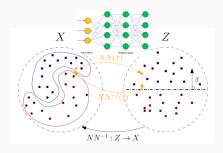




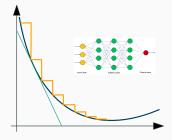
















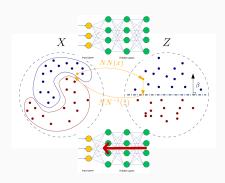




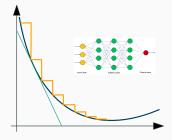




Interpretable counterfactual explanations guided by prototypes A Van Looveren, J Klaise - arXiv preprint arXiv:1907.02584, 2019 - arxiv.org We propose a fast, model agnostic method for finding interpretable counterfactual explanations of classifier predictions by using class prototypes. We show that class prototypes, obtained using either an encoder or through class specific kd trees, significantly speed up the the search for counterfactual instances and result in more interpretable explanations. We introduce two novel metrics to quantitatively evaluate local interpretability at the instance level. We use these metrics to illustrate the effectiveness of our method on an ... ☆ 99 Citeret af 61 Relaterede artikler Alle 4 versioner >>>





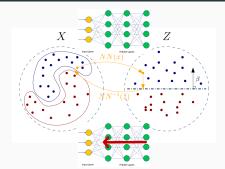




Interpretable counterfactual explanations guided by prototypes
<u>AVan Loweren</u>, <u>I Ksiase</u> - arriv preprint ar/vir.1907.02584, <u>2019</u> - arriv.org

We propose a fax, model apnosite method for finding interpretable counterfactual explanations of classifier predictions by using class prototypes. We show that class prototypes, obtained using either an encoder of through dass specific More est, significantly speed up the the search for counterfactual instances and result in more interpretable explanations. We introduce two novel metrics to quantitatively evaluate local interpretability at the instance level. We use these metrics to liststrate the effectiveness of our method on an ...

O 9 Citere 16.1 Relatered estifier Alle Averagement**







Why should this work?





L Dinh, D Krueger, Y Bengio - arXiv preprint arXiv:1410.8516, 2014 - arxiv.org

... independent dimensions), then we obtain the following non-linear independent components estimation (NICE ... Directed graphical models lack the conditional independence structure that ... is used more successfully in nonlinear independent components analysis (Hyvärinen and ...





Why should this work?



Density estimation using real nvp

LDinh, J Sohl-Dickstein, S Bengio - arXiv preprint arXiv:1605.08803, 2016 - arxiv.org
Unsupervised learning of probabilistic models is a central yet challenging problem in
machine learning, Specifically, designing models with tractable learning, sampling,
inference and evaluation is crucial in solving this task. We extend the space of such models ...





Why should this work?



Glow: Generative flow with invertible 1x1 convolutions

DE Kingma, P_Dhariwal - arXiv preprint arXiv:1807.03039, 2018 - arxiv.org

Flow-based generative models (Dinh et al., 2014) are conceptually attractive due to tractability of the exact log-likelihood, tractability of exact latent-variable inference, and parallelizability of both training and synthesis. In this paper we propose Glow, a simple type ...

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