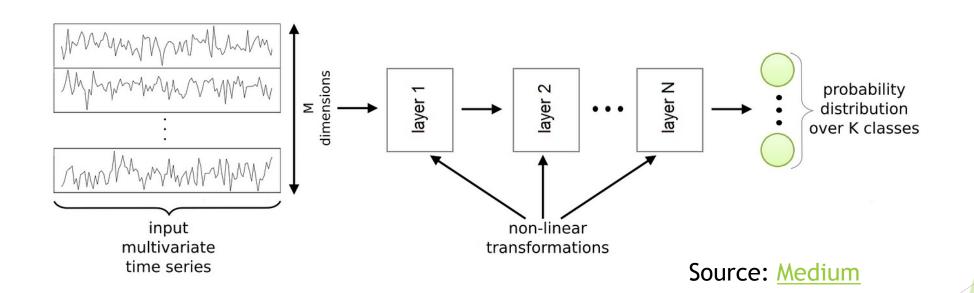
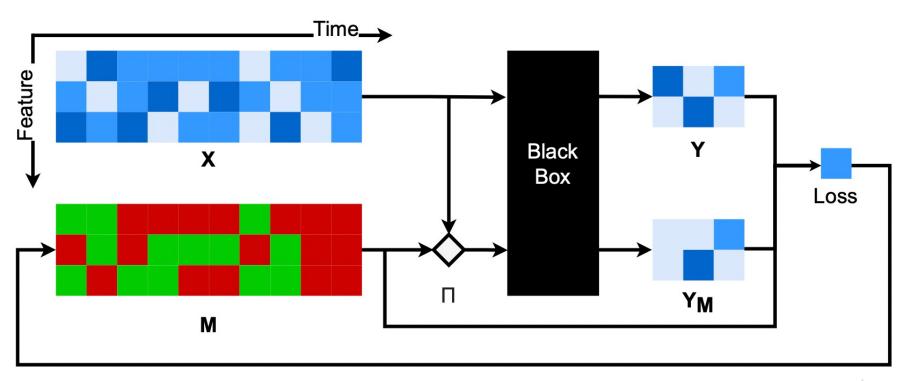
Joseph Enguehard



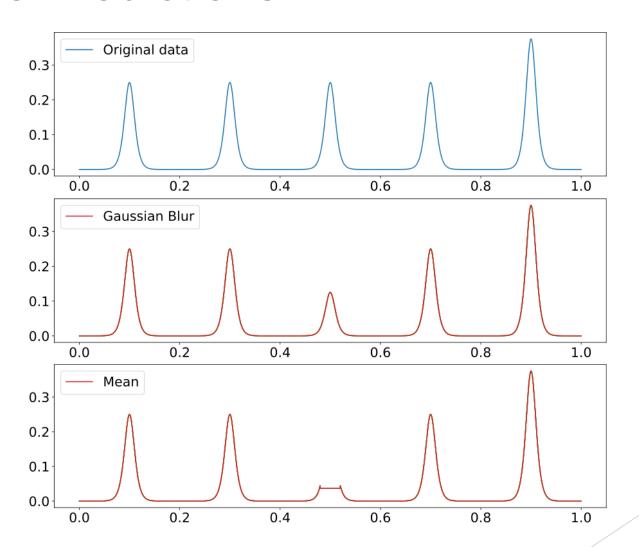


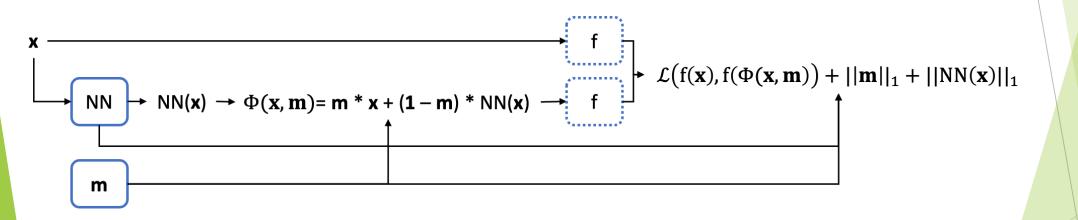






Source: Crabbé et. al.





$$\underset{m,\Phi \in NN}{\operatorname{argmin}} \mathcal{L}(f(x), f(\Phi(x, m)) + ||m||_1 + ||NN(x)||_1$$

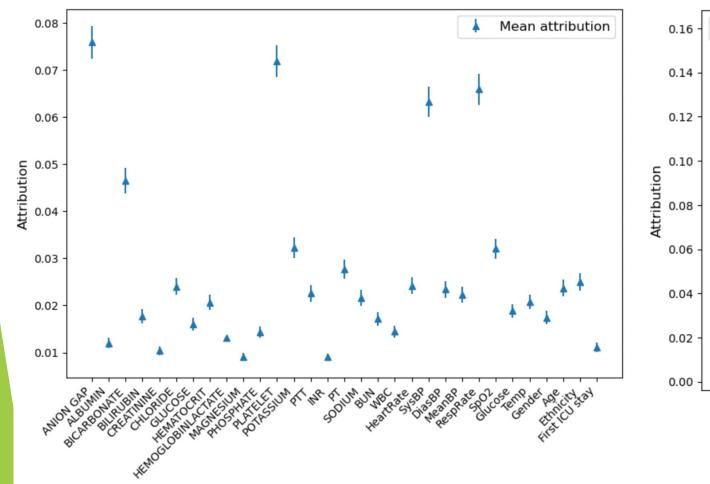
$$\Phi(x,m) = m \times x + (1-m) \times NN(x)$$

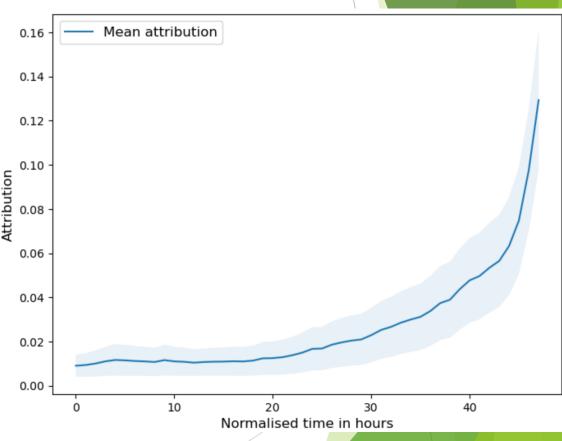
HMM Dataset

Method	AUP↑	AUR ↑	Ι↑	$S\downarrow$
DeepLift	0.920 (0.019)	0.454 (0.011)	359 (9.55)	145 (0.949)
DynaMask	0.711 (0.020)	0.763 (0.026)	954 (50.0)	45.4 (0.781)
IG	0.918 (0.019)	0.454 (0.011)	359 (11.6)	146 (0.871)
GradientShap	0.849 (0.030)	0.414 (0.015)	335 (14.8)	138 (2.44)
Fit	0.421 (0.013)	0.549 (0.017)	436 (22.7)	164 (2.79)
Lime	0.932 (0.017)	0.438 (0.008)	347 (8.46)	143 (1.47)
Occlusion	0.866 (0.032)	0.393 (0.006)	322 (14.6)	137 (1.90)
Aug Occlusion	0.755 (0.043)	0.388 (0.025)	364 (9.02)	165 (1.42)
Retain	0.645 (0.088)	0.334 (0.013)	206 (21.2)	138 (5.85)
Ours	0.885 (0.030)	0.781 (0.013)	1536 (79.0)	34.1 (3,70)

In-Hospital Mortality

Method	Acc↓	Comp ↑	CE↑	Suff ↓
DeepLift	0.972 (0.003)	-1.19E-3 (0.007)	0.125 (0.014)	-6.92E-3 (0.006)
DynaMask	0.975 (0.002)	-1.27E-3 (0.004)	0.106 (0.009)	6.57E-3 (0.012)
IG	0.972 (0.003)	1.24E-4 (0.007)	0.127 (0.015)	-7.61E-3 (0.006)
GradientShap	0.968 (0.006)	-6.28E-3 (0.004)	0.128 (0.017)	6.61E-4 (0.005)
Lime	0.983 (0.003)	-5.22E-3 (0.004)	0.093 (0.008)	-2.23E-3 (0.019)
Occlusion	0.971 (0.003)	-4.03E-3 (0.003)	0.122 (0.008)	-4.97E-3 (0.008)
Aug Occlusion	0.972 (0.003)	-6.88E-4 (0.004)	0.121 (0.009)	-4.62E-3 (0.011)
Retain	0.971 (0.003)	-8.01E-3 (0.006)	0.0123 (0.009)	4.90E-4 (0.007)
Ours	0.943 (0.008)	1.09E-1 (0.023)	0.318 (0.057)	-6.94E-2 (0.006)





Any Questions? Please use the Chat!