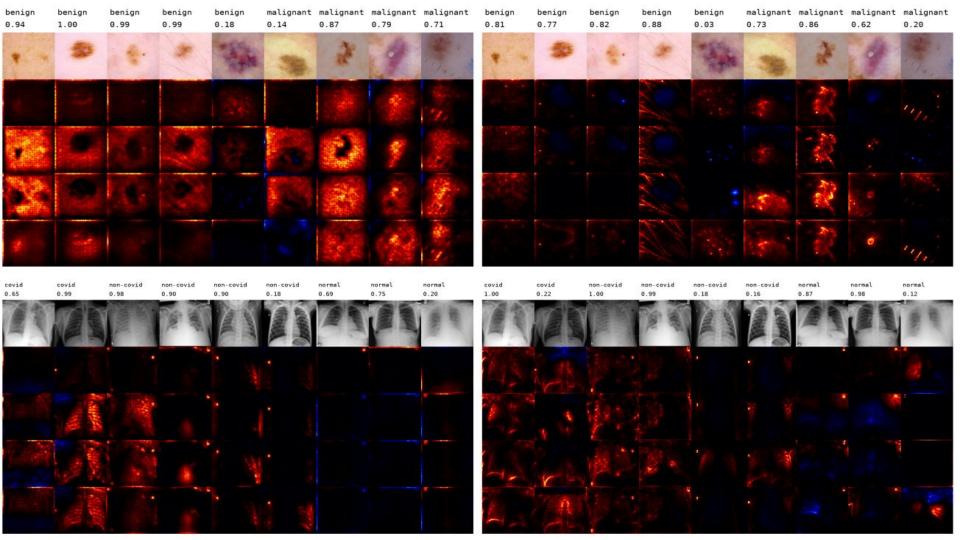
LRP & CRP

Evaluation across different model architectures and dataset Paweł Pawlik, Michał Siennicki, Alicja Ziarko

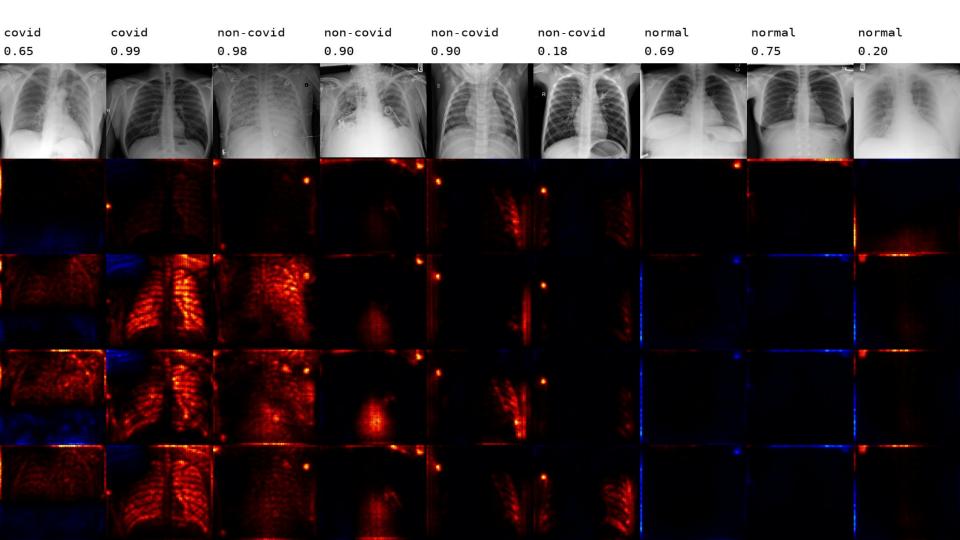
What was done

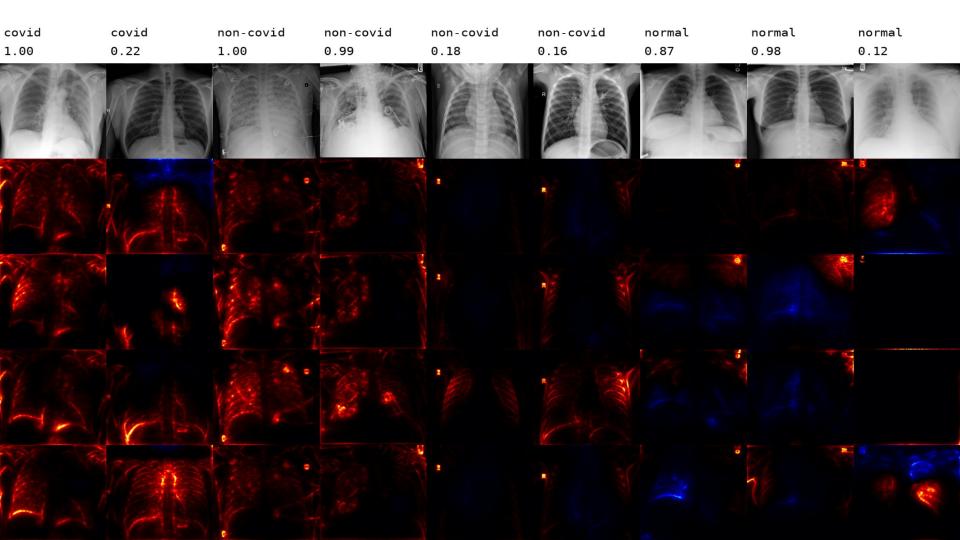
- More data exploration
- Training of the models
- LRP and CRP on
 - 2 models: ResNet50 and VGG16
 - o 2 datasets: COVID and Melanoma
- test LRP stability after applying augmentations



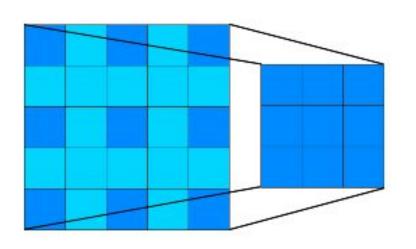
benign 0.94	benign 1.00	benign 0.99	benign 0.99	benign 0.18	malignant 0.14	malignant 0.87	malignant 0.79	malignant 0.71
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	**							7

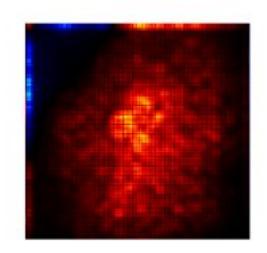
benign 0.81	benign 0.77	benign 0.82	benign 0.88	benign 0.03	malignant 0.73	malignant 0.86	malignant 0.62	malignant 0.20
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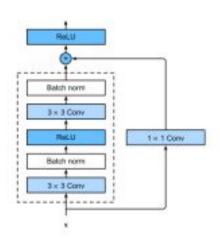




Checker pattern in ResNet explanations

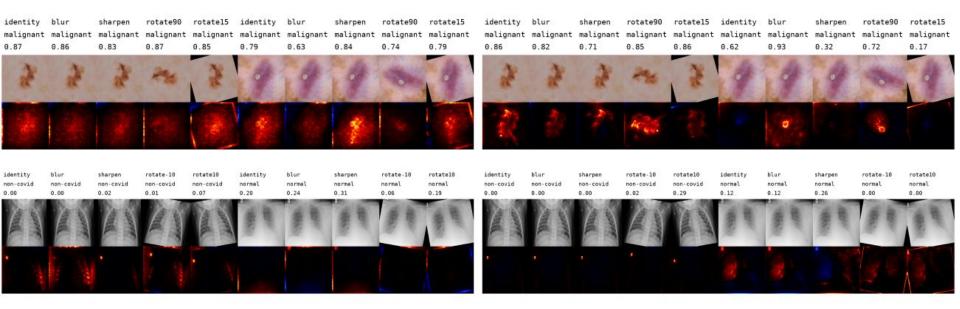






LRP on augmentations

ResNet50 VGG16



Takeaways

- LRP and CRP give useful insight into how models work
- medical datasets are hard
- CNNs are not robust so their explanations are not either