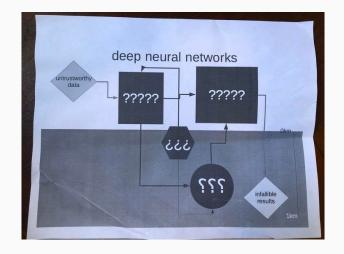
Detecting individual-level deviations in brain morphology with Layerwise Relevance Propagation

Esten Høyland Leonardsen June 22, 2022

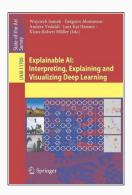




```
Traceback (most recent call last):

File "<stdin>", line 1, in <module>
File "<stdin>", line 2, in print model
File "<stdin>", line 4, in print layer
File "<stdin>", line 4, in print layer
File "<stdin>", line 4, in print layer
[Previous line repeated 8 more times]
File "<stdin>", line 3, in print_layer
MemoryError
```

"Relying on devices whose logic is opaque violates principles of medical ethics."



Recipient

End user

Domain expert

Policy makers

Society

Developer

Level

Explain the model as a whole

Explain single decisions

Produce stereotypical examples

Recipient

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Explain the model as a whole

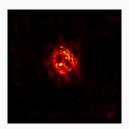
Explain single decisions

Produce stereotypical examples

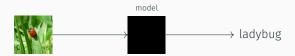


This is a ladybug because of the red back with the black dots

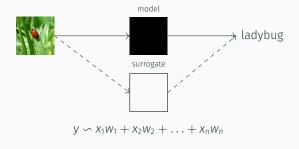




Explainable AI: Surrogate models



Explainable AI: Surrogate models



Explainable AI: Surrogate models

