

MLSECOPS 101

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\$whoami

- development (java, go, c#)
- application security research, code review
- xsecops
- social media
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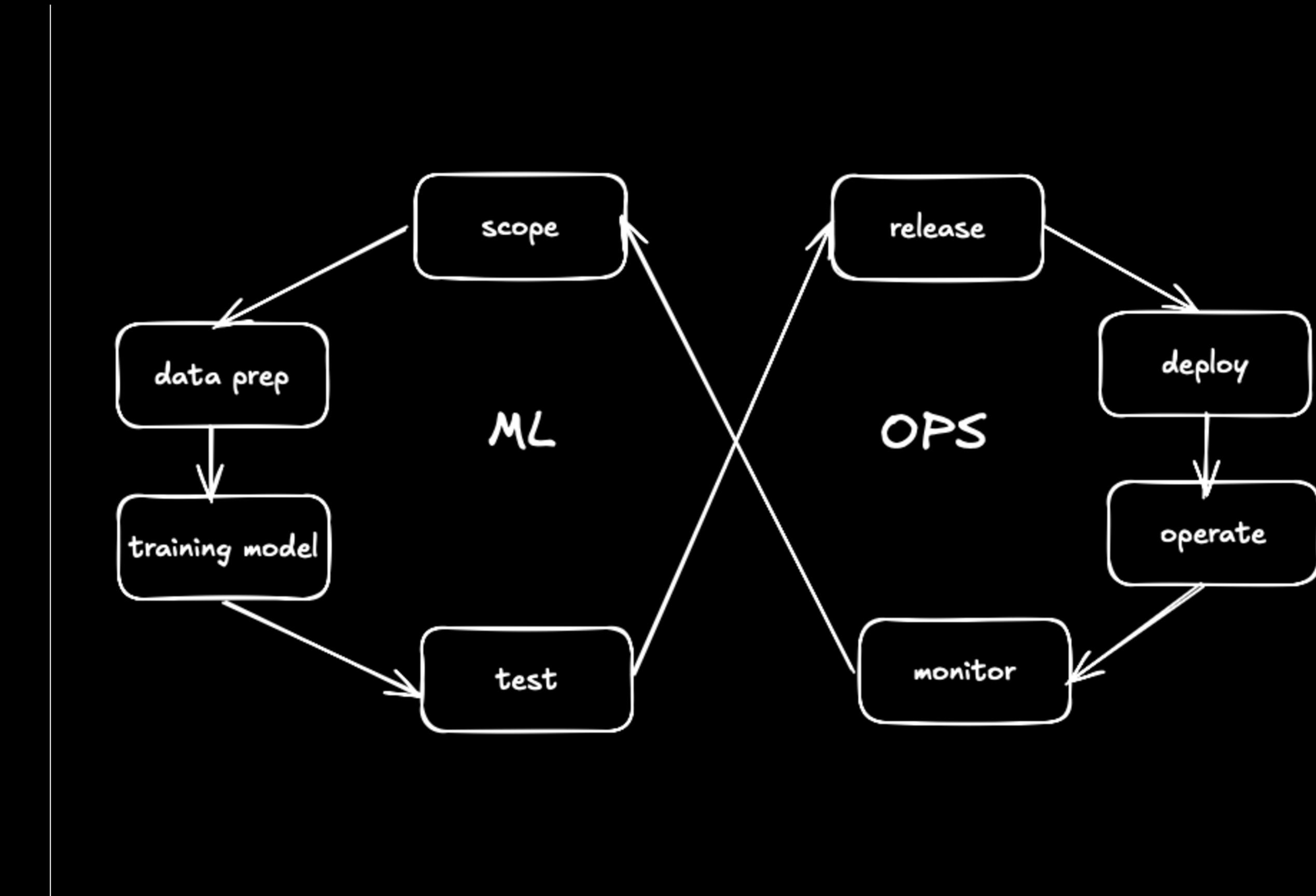
\$agenda

- ml / ai
- mlops
- mlsecops
 - supply chain vulnerabilities
 - model provenance
 - governance, risk & compliance
 - trusted ai: bias, fairness & explainability
 - adversarial ml
- references

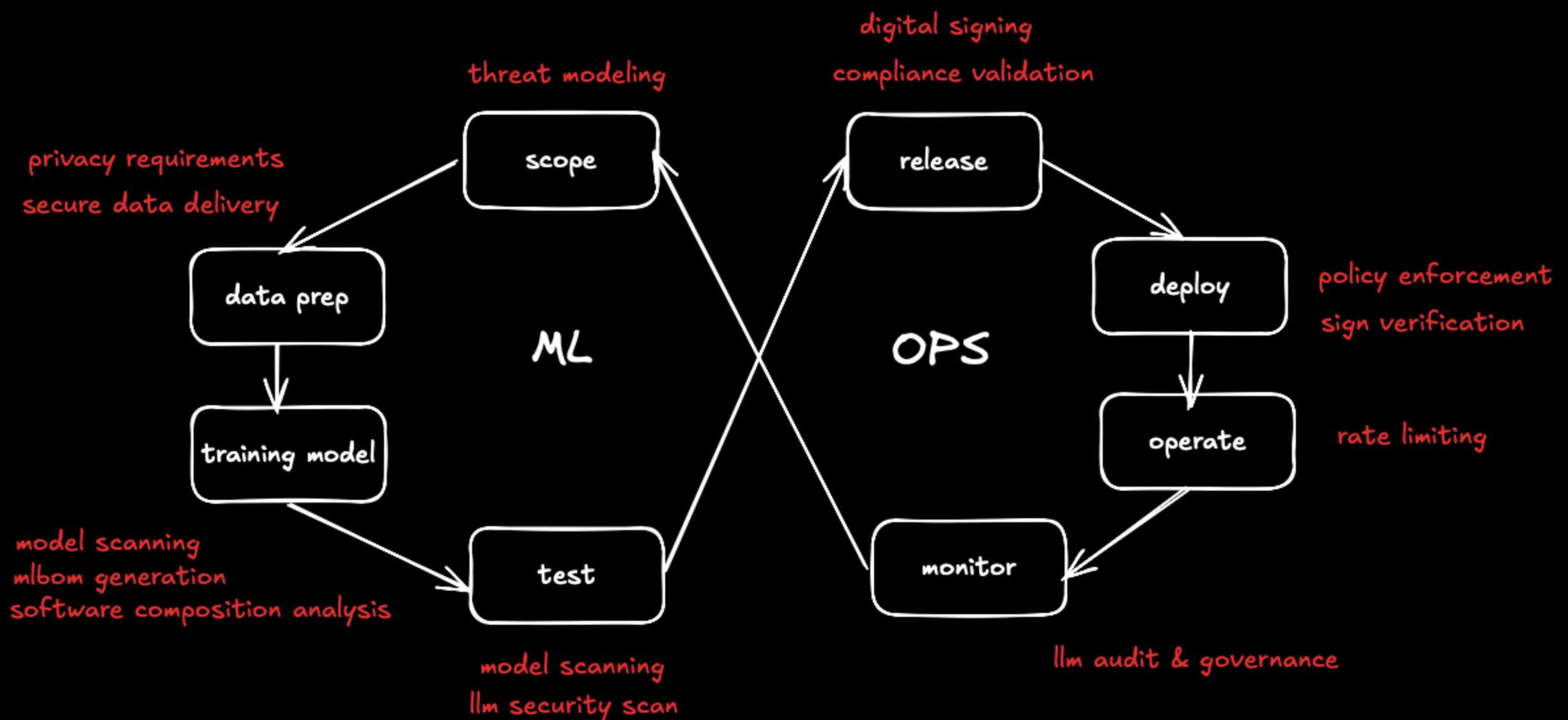
\$ml / ai

- ml
 - supervised model
 - unsupervised model
 - reinforcement
- ai
 - speak, listen, writing like a human
- ai <superset> ml

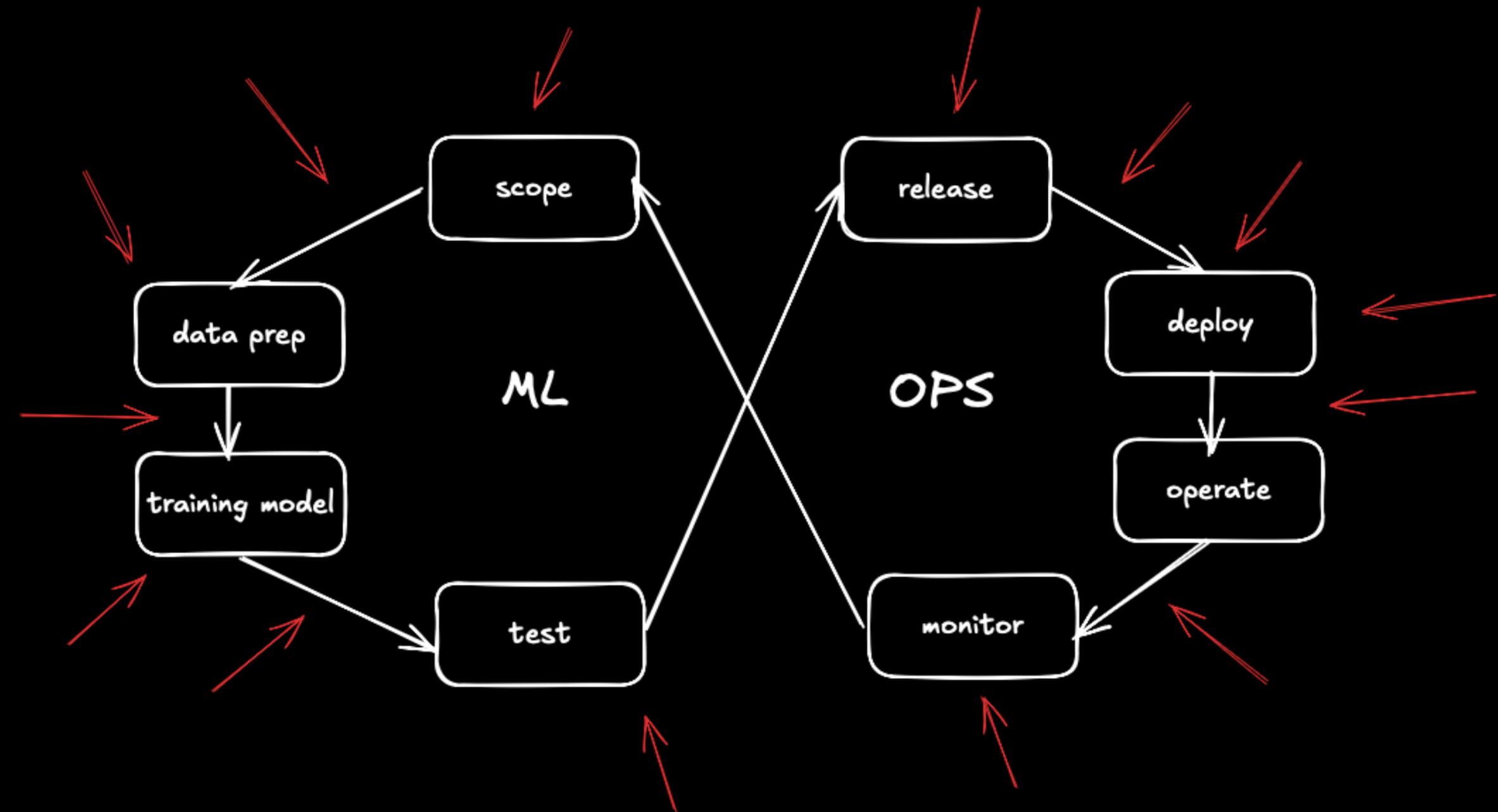
\$mlops



\$mlsecops



\$supplychain



\$provenance

- history of model
 - change trackings
 - who cause changes
 - why / when changed
- GDPR, HIPAA

\$grc

- governance
- risk & compliance
- mlbom
 - algorithms
 - data sets
 - frameworks

\$trustedai

- bias
- fairness
- explainability

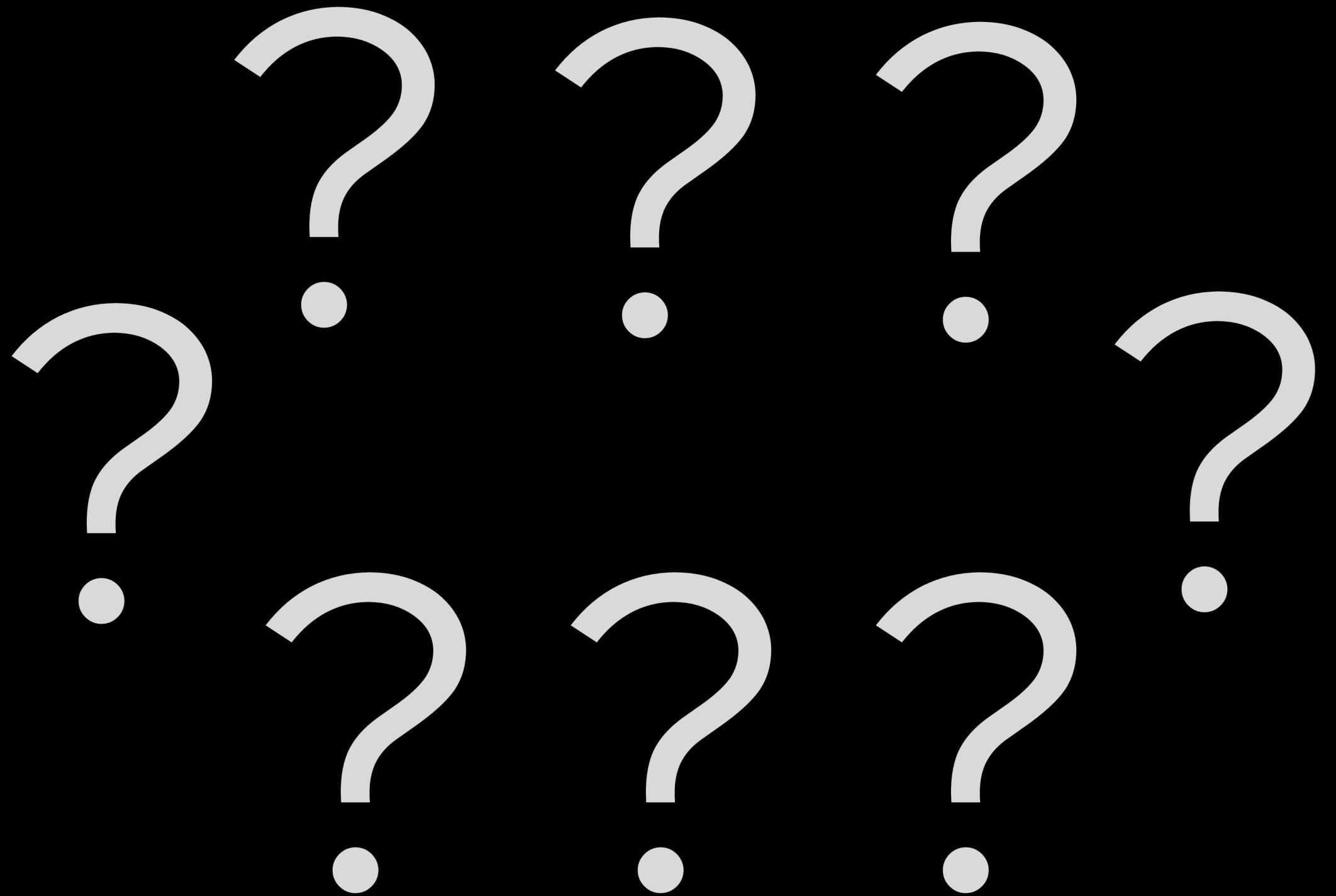
\$adversarialml

- manipulating input data
- manipulation of the model
- architecture & access control attacks
-

\$references

- mlsecops.com
- neptune.ai/blog
- protectai.com/blog
- github.com/RiccardoBiosas/awesome-MLSecOps
- huntr.com

\$qa





thanks for listening