

# MLSECOPS 101

Ahmet Akan

# \$whoami

- development (java, go, c#)
- application security research, code review
- xsecops
- social media
  - [ahmetakan.com](http://ahmetakan.com)
  - [x.com/ahmetak4n](https://x.com/ahmetak4n)
  - [ahmetak4n@gmail.com](mailto:ahmetak4n@gmail.com)
  - [github.com/ahmetak4n](https://github.com/ahmetak4n)

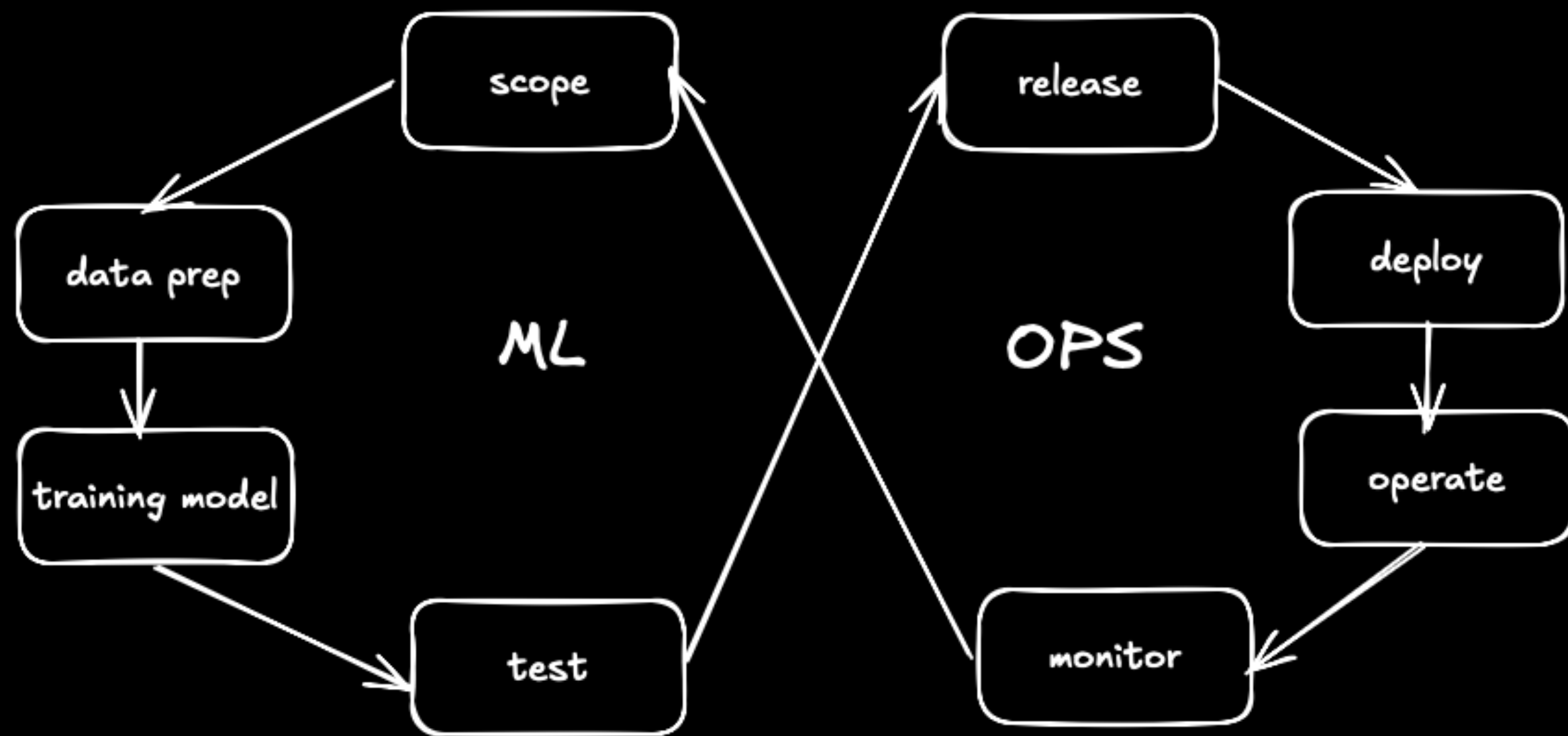
# \$agenda

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

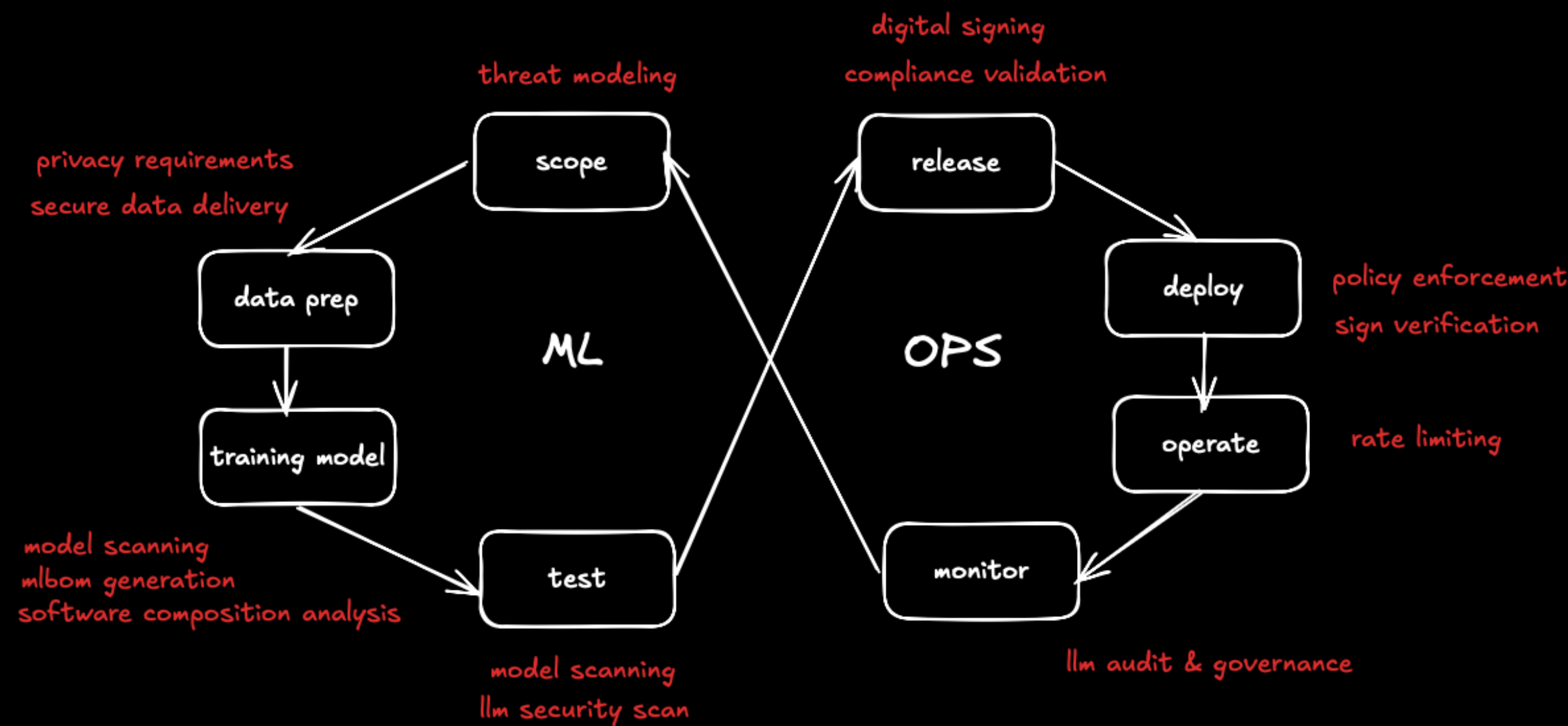
# \$ml / ai

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

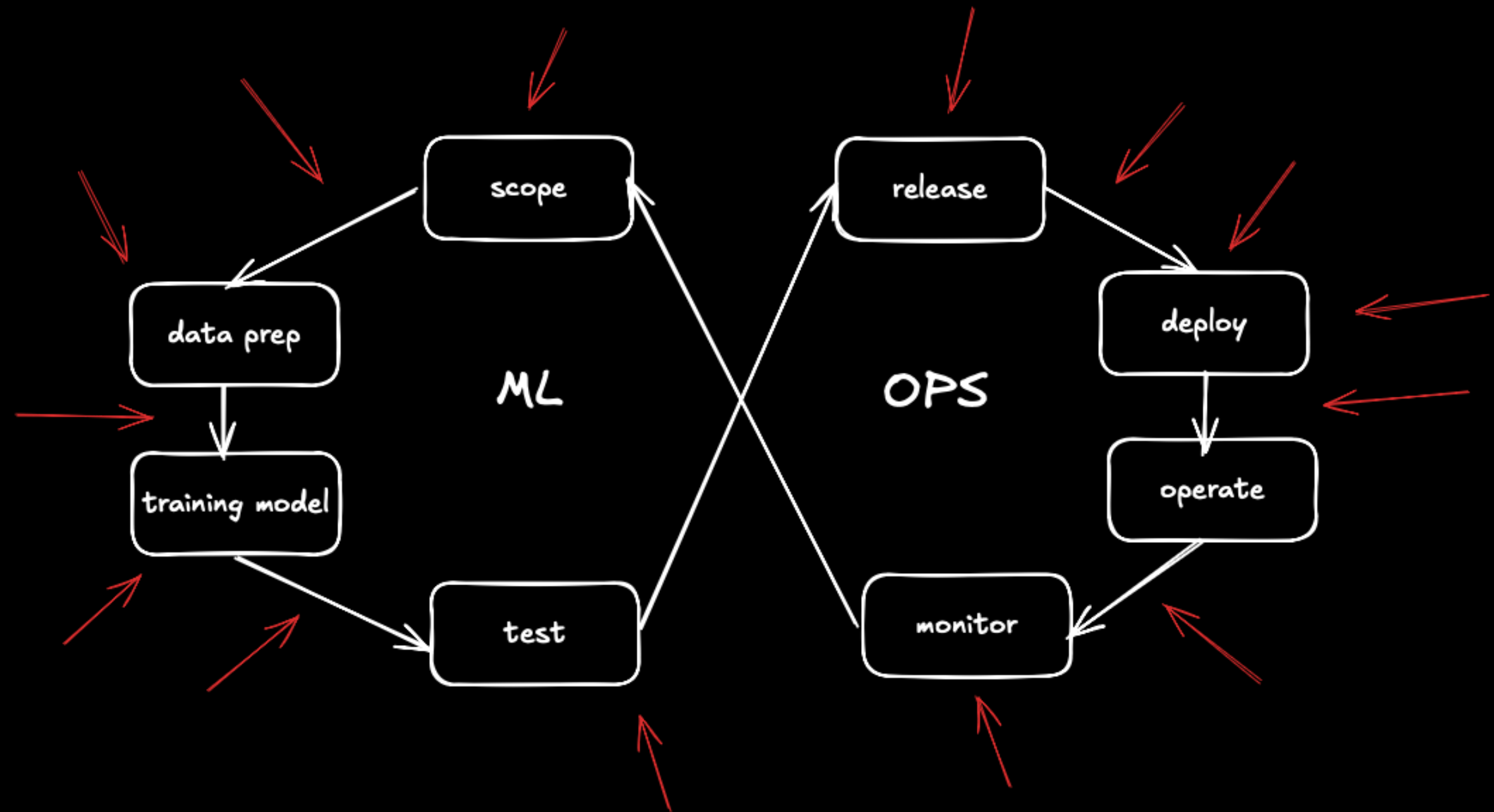
**\$mlops**



# \$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

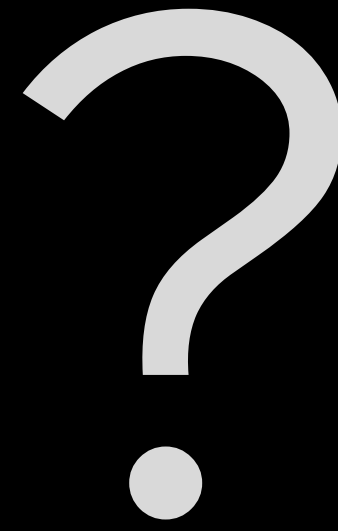
# \$adversarialml

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

# \$references

- [mlsecops.com](https://mlsecops.com)
- [neptune.ai/blog](https://neptune.ai/blog)
- [protectai.com/blog](https://protectai.com/blog)
- [github.com/RiccardoBiosas/awesome-MLSecOps](https://github.com/RiccardoBiosas/awesome-MLSecOps)
- [huntr.com](https://huntr.com)

\$qa



An abstract background featuring a complex pattern of overlapping purple and black squares, rectangles, and thin horizontal and vertical lines. The pattern is centered and extends across most of the frame, creating a textured, digital effect.

thanks for listening