

# MLOps with vetiver in Python and R



RStudio Enterprise Meetup

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September 20, 2022

# Who are we?



 @isabelizimm

 @isabelizimm

 isabelizimm.github.io



 @juliasilge

 @juliasilge

 juliasilge.com

Who are you?

# Who are you?



If you develop a  
model...

you can operationalize that model!

If you develop a  
model...

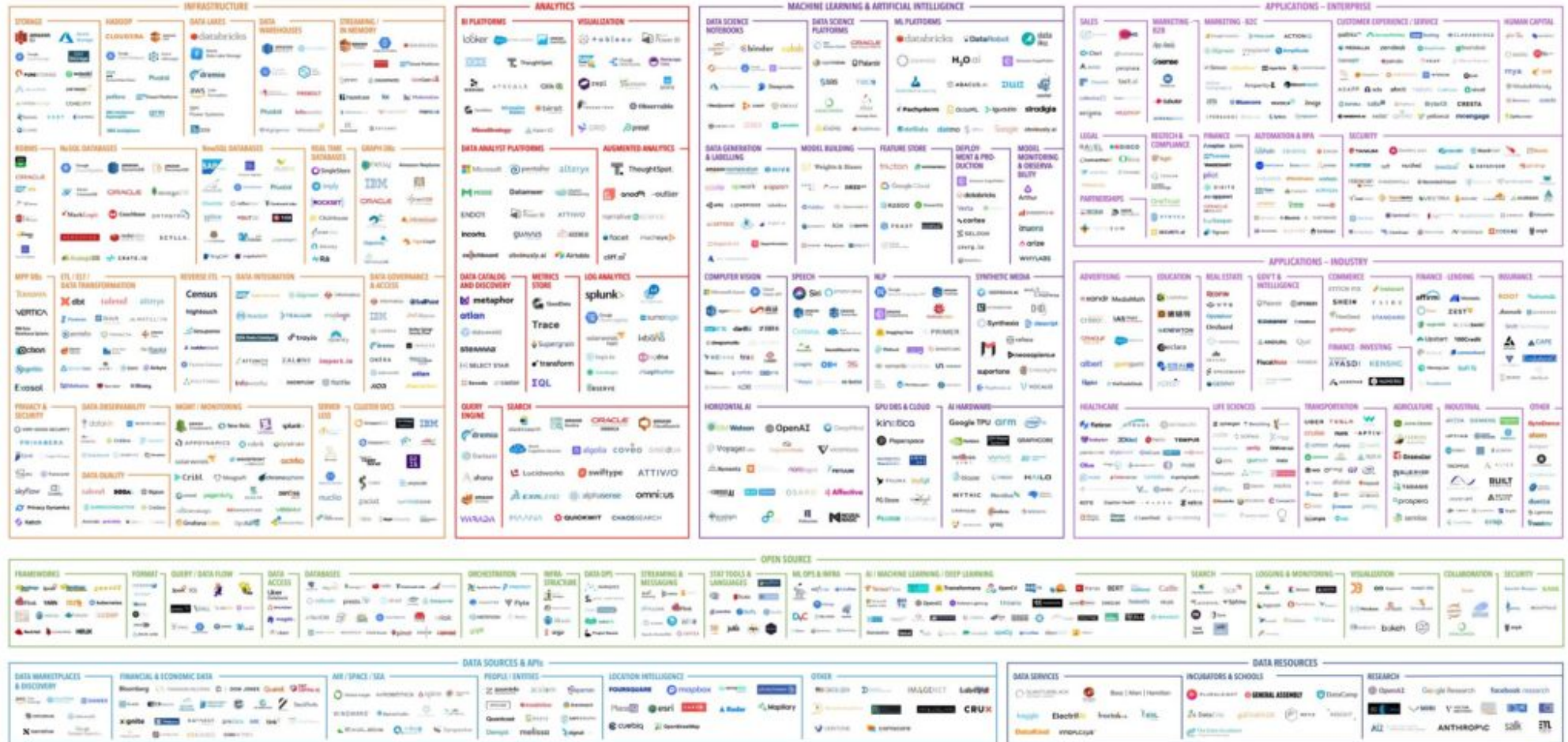
you likely *should* operationalize that model!

# What is MLOps?



# MLOps is...

MACHINE LEARNING, ARTIFICIAL INTELLIGENCE, AND DATA (MAD) LANDSCAPE 2021







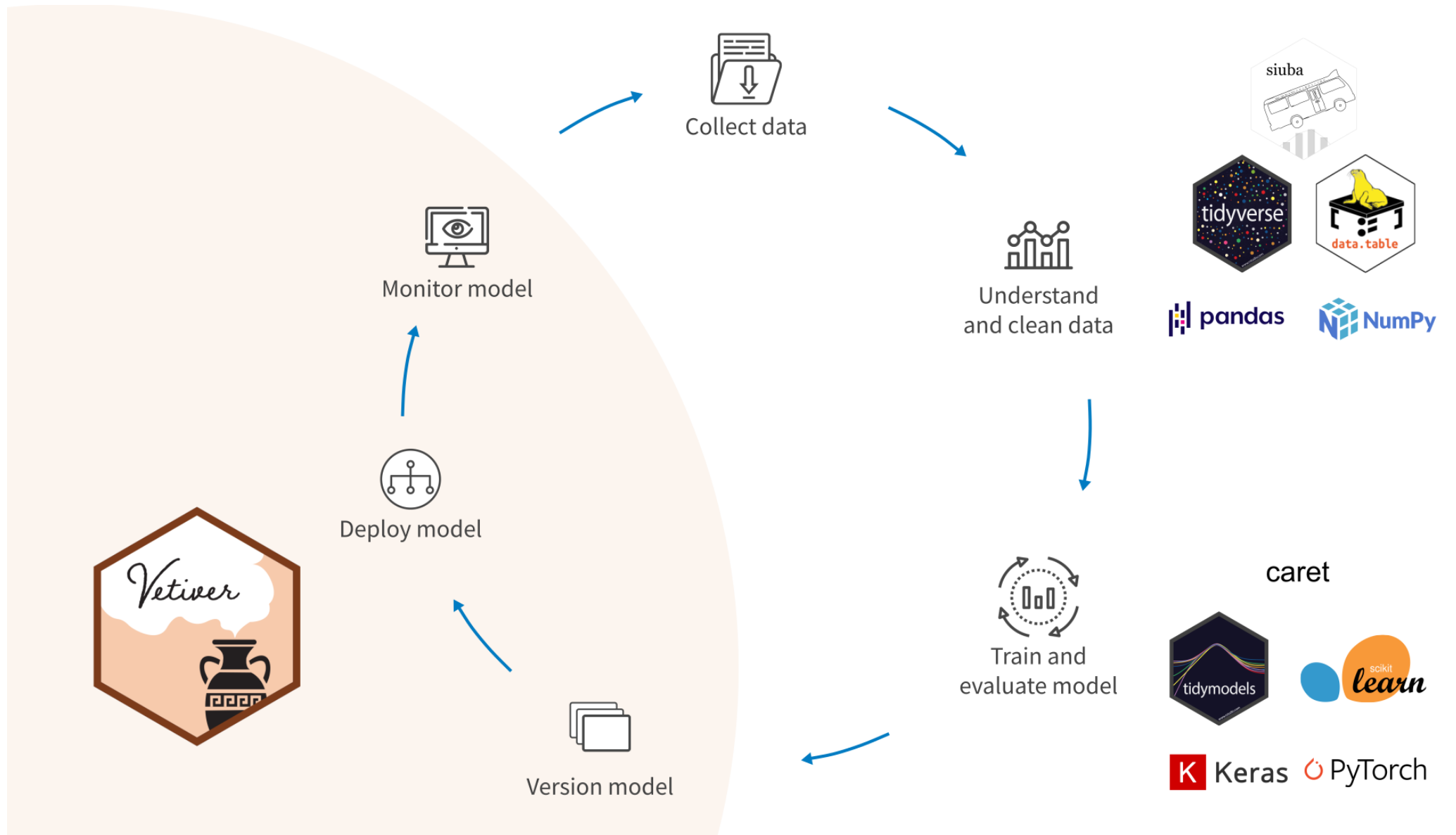
SCOOBY-DOO:™ & © Hanna-Barbera (s17)

**SCOOBY-DOO!**

# MLOps is...

a set of practices to *deploy* and *maintain* machine learning models in production **reliably** and **efficiently**

# MLOps is...





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**SCOOBY-DOO!**

# MLOps is...

- *Versioning*

managing change in models

# MLOps is...

- *Versioning*
- *Deploying*

putting models in REST APIs



# MLOps is...

- *Versioning*
- *Deploying*
- *Monitoring*

tracking model performance

DEMO

# We did it!



# MLOps is...

a set of practices to *deploy* and *maintain* machine learning models in production **reliably** and **efficiently**

# What does vetiver do?

- Version
- Deploy
- Monitor

your R and Python models

# Where does vetiver work?

- RStudio's pro products, like [Connect](#)
- A public or private cloud, using Docker

# Learn more

- Documentation at <https://vetiver.rstudio.com/>
- Isabel's talk from rstudio::conf() 2022 on [Demystifying MLOps](#) 🍪
- Julia's recent screencast on [deploying a model with Docker](#)
- End-to-end demos from RStudio Solution Engineering in [R](#) and [Python](#)