

# Model Deployment

## Machine Learning



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# Topics Covered

- Important considerations prior to model deployment
- What deploying a model entails
- The difference between deploy, deploy & persist, & ignore
- How to deploy a model and/or results in One AI

# Learning Outcomes

You will:

- Be comfortable evaluating important considerations before deploying or and/or persisting, including model performance, interpretability, and alignment with business objectives
- Understand what deploying a machine learning model generally means and how that differs from deploying in One AI
- Understand model and results deployment and be able to differentiate deployment options and how they impact accessibility of information
- Learn how to deploy machine learning results in One AI, moving them into the One Model data model and ultimately Explore and Storyboards



# **Considerations Prior to Deployment**



# Considerations Prior to Model Deployment

- Model performance & fit
- Model interpretability
- Business requirements
- Integration readiness
  - Script updated to create necessary data tables & dimensions
  - Metrics & storyboards created
- Monitoring & maintenance plan in place
- Regulatory compliance & ethics



# What Deploying a Model Entails



# Model Deployment

- We have a great model built - now what?
  - **Deployment!**
- Deployment is the process of making the trained model and/or results more widely available
  - This usually means moving a machine learning model to a production environment
  - In One Model, it refers to sharing the results of a model run
- Deploying pushes the model output from only being viewable in the One AI tab to the data model to be used in Storyboards



**Deploy, Deploy & Persist,  
& Ignore**





# Deploy, Deploy & Persist, & Ignore

- **Deploy:** loads the model iteration results into the data model, feeding any metrics, dimensions, columns, & storyboards created for reporting on this data
- **Deploy & Persist:** in addition to deploying the results, the predictive model is saved or 'frozen' in its current state
  - Subsequent model runs will not be re-trained. The persisted model including the estimator, configuration settings, & features will be used
- **Ignore:** prevents the model run from being deployed or deployed or persisted in the future
- **Leave in Pending Status:** allows you to take any of the above actions in the future when you are ready



# Deploying a Model in One AI





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# Thanks for watching!

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