

Preparing a Data Science Model for Deployment



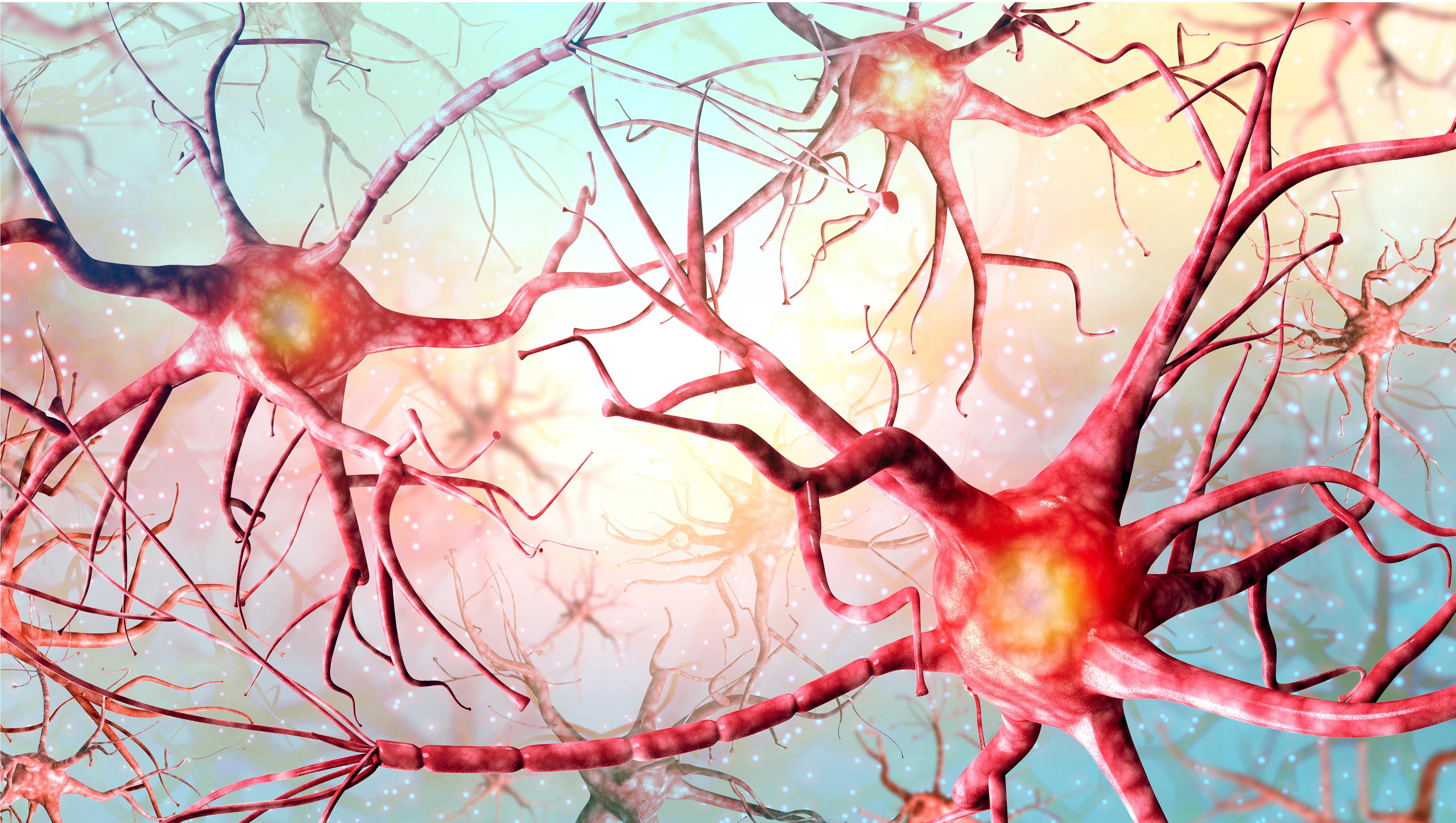
Axel Sirota

AI and Cloud Consultant

@AxelSirota



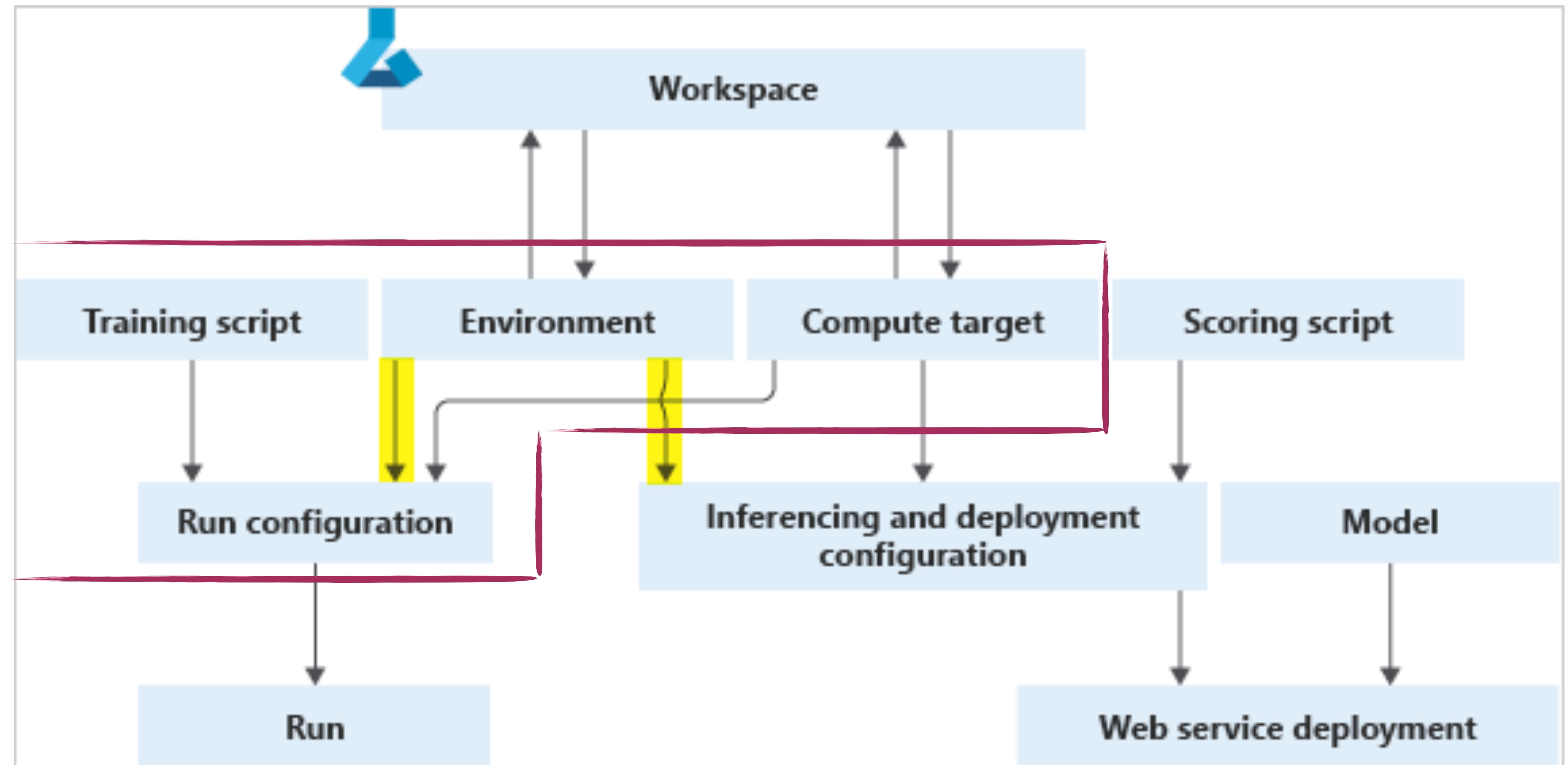
Software Environments to the Rescue





Azure Machine Learning Environments

Azure Machine Learning environments are an encapsulation of the environment where your machine learning training happens.



Types of Environments

**Curated
environments**

**User-managed
environments**

**System-managed
environments**

Types of Environments



Development environments and
software environments are
different things in Azure.

Demo

Let's try to train a scikit learn model using a curated environment.

Demo

Create a system-managed environment and register models

Demo

Create an environment from scratch with user-managed environments

Takeaways for the DP-100



A software environment refers to all of the packages and dependencies to run our training scripts



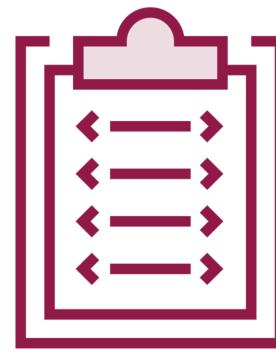
You can have curated, user-managed and system-managed environments



On curated environments, you just use what azure offers you, and you are ensured security and maintenance

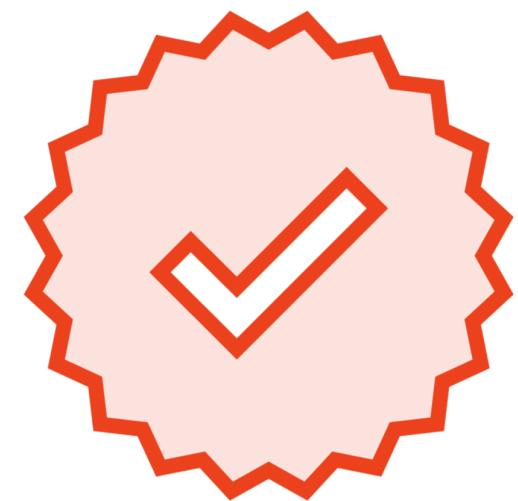


On user-managed environments, you manage it all yourself with Dockerfiles



On system-managed environments you start from a curated environment but add more packages you want

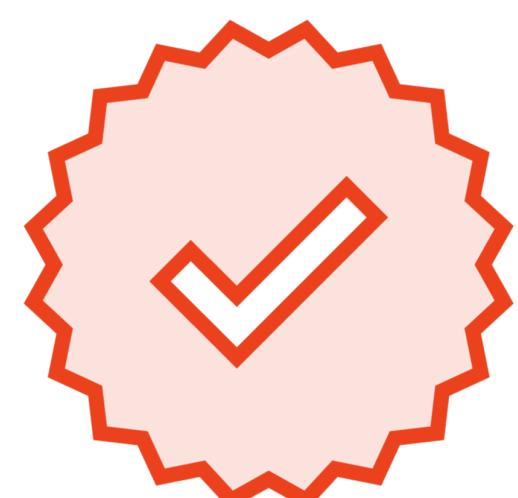
Keys for the DP-100



Practice filling the code under exercises in the demos to interact with Azure ML yourself



Recall the different software environments in Azure ML



Try to run a different script from a compute instance into the cluster