

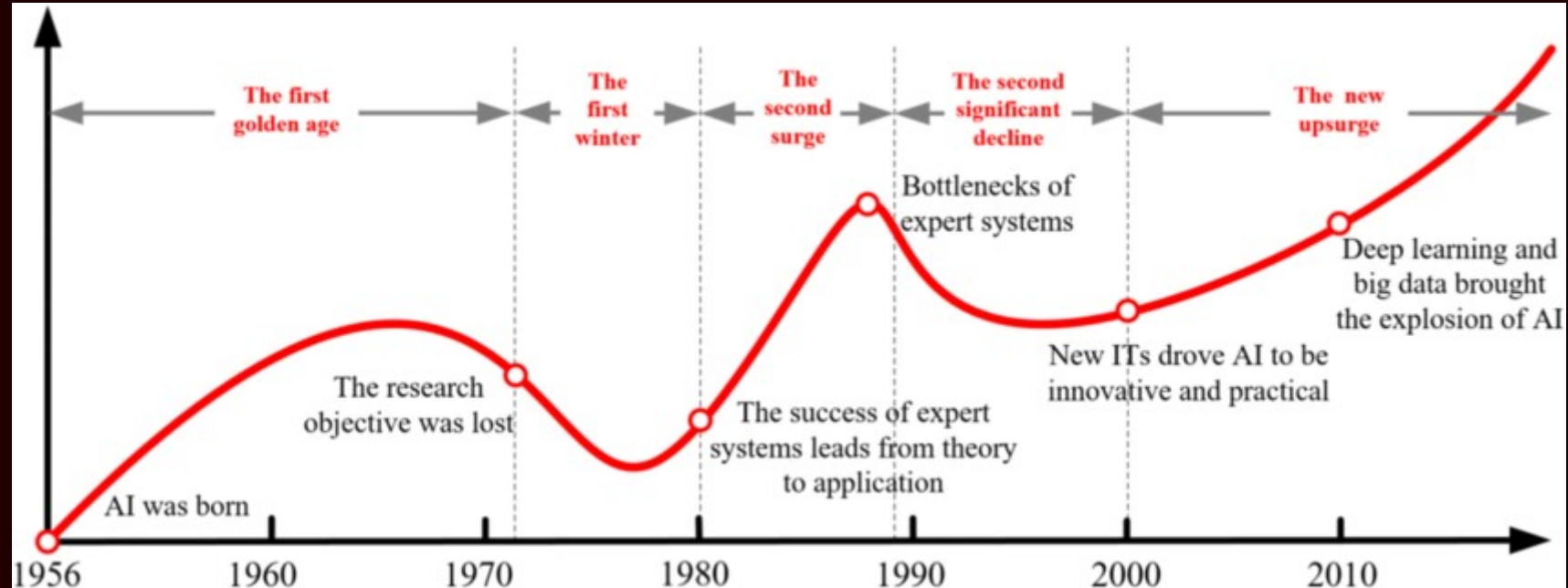
Effortless AI Scaling: Red Hat OpenShift and LLM Integration Production- grade AI

The logo for Piros, featuring the word "Piros." in a bold, sans-serif font. The text is white and is contained within a white speech bubble shape that has a small tail pointing towards the top-left. The background of the entire slide is a high-angle, red-tinted photograph of a crowd of people walking on a paved surface.

Piros.

Indy Van Mol
Piros

The explosion of AI and its integration into all business applications



The LLM take over



LLMs

Model	Version	Retirement date	Suggested replacements
dall-e-2	2	January 27, 2025	dalle-3
dall-e-3	3	No earlier than April 30, 2025	
gpt-35-turbo	0301	January 27, 2025	gpt-35-turbo (0125)
		Deployments set to Auto-update to default will be automatically upgraded to version: 0125, starting on November 13, 2024.	gpt-4o-mini
gpt-35-turbo	0613	January 27, 2025	gpt-35-turbo (0125)
		Deployments set to Auto-update to default will be automatically upgraded to version: 0125, starting on November 13, 2024.	gpt-4o-mini
gpt-35-turbo	1106	No earlier than January 27, 2025	gpt-35-turbo (0125)
		Deployments set to Auto-update to default will be automatically upgraded to version: 0125, starting on November 13, 2024.	gpt-4o-mini
gpt-35-turbo	0125	No earlier than Feb 22, 2025	gpt-4o-mini
gpt-4	0314	June 6, 2025	gpt-4o
gpt-4	0613	June 6, 2025	gpt-4o
gpt-4	1106-preview	To be upgraded to gpt-4 version: turbo-2024-04-09, starting no sooner than January 27, 2025 ¹	gpt-4o
gpt-4	0125-preview	To be upgraded to gpt-4 version: turbo-2024-04-09, starting no sooner than January 27, 2025 ¹	gpt-4o
gpt-4	vision-preview	To be upgraded to gpt-4 version: turbo-2024-04-09, starting no sooner than January 27, 2025 ¹	gpt-4o
gpt-4o	2024-05-13	No earlier than March 20, 2025	
		Deployments set to Auto-update to default will be automatically upgraded to version: 2024-08-06, starting on December 5, 2024.	

Closed-source vs. open-weight models

@maximelabonne

Llama 3.1 405B closes the gap with closed-source models for the first time in history.

MMLU (5-shot)



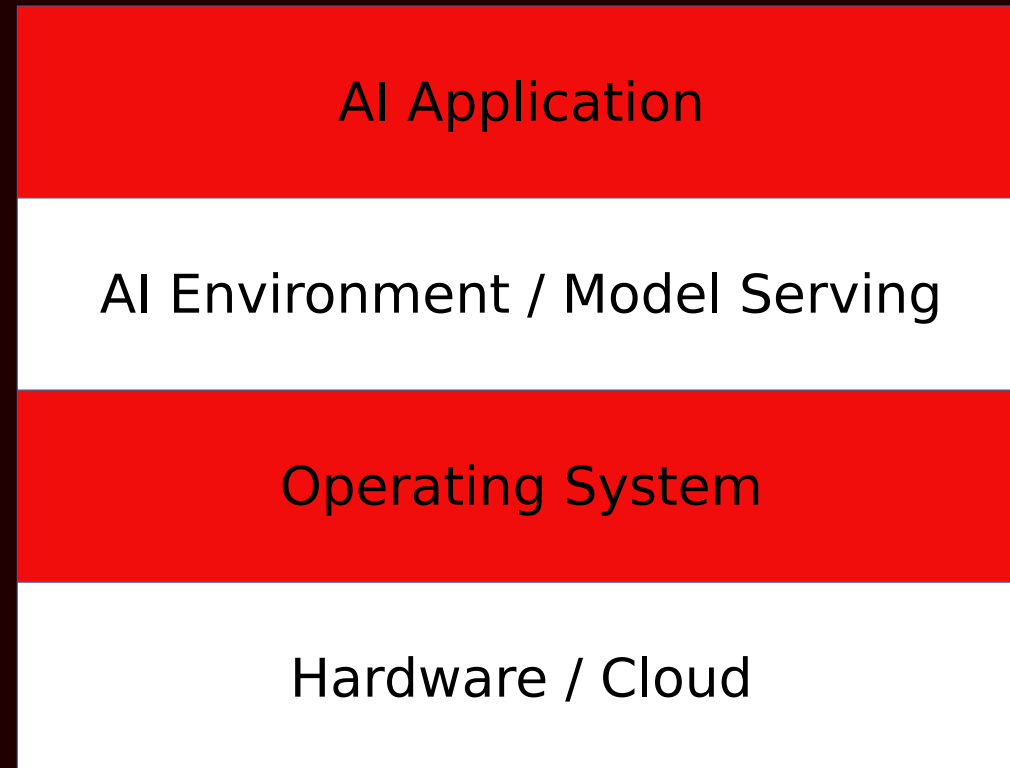
HUGGING FACE

The Future of AI is Open Source



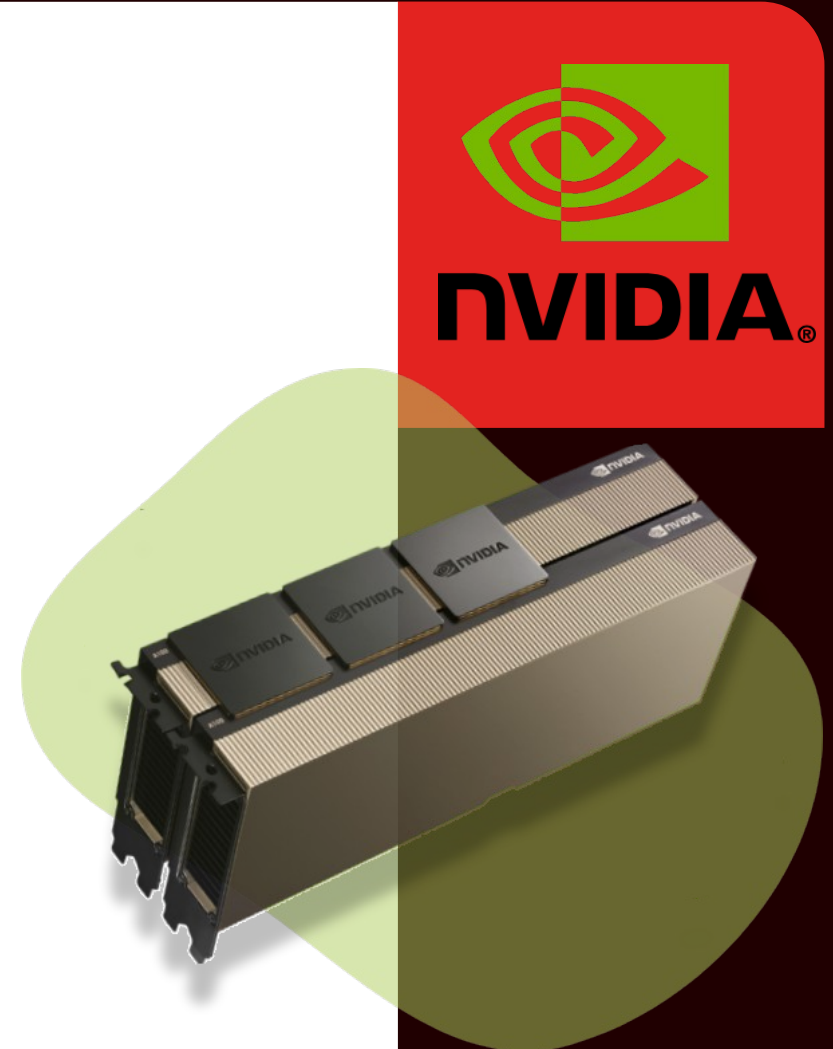
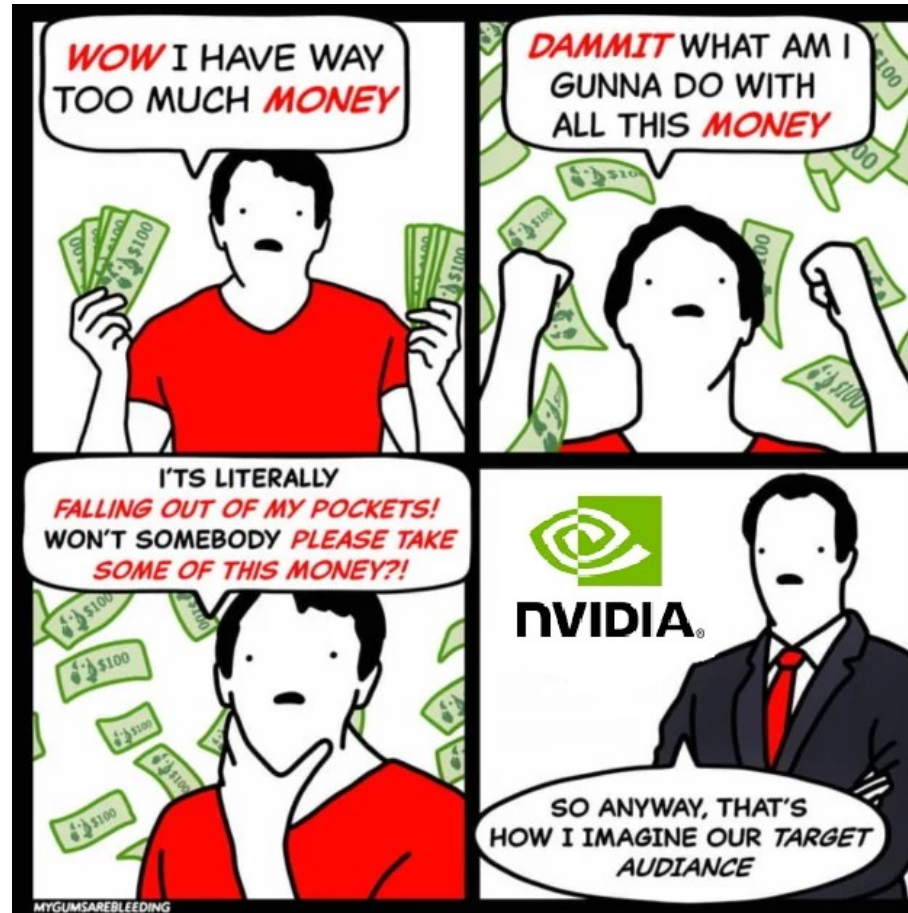
Red Hat

How to build you AI envoirment

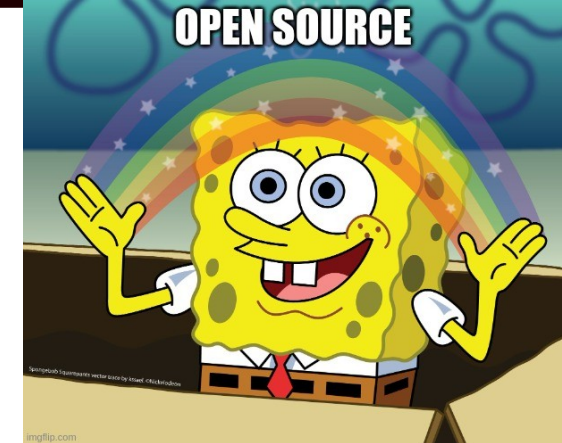


AI Accelerators

- A100
- H100
- H200
- Blackwell
- L40s



Nvidia Nvidia Nvidia



What are the challenges that are impeding your progress?

Bridging environments

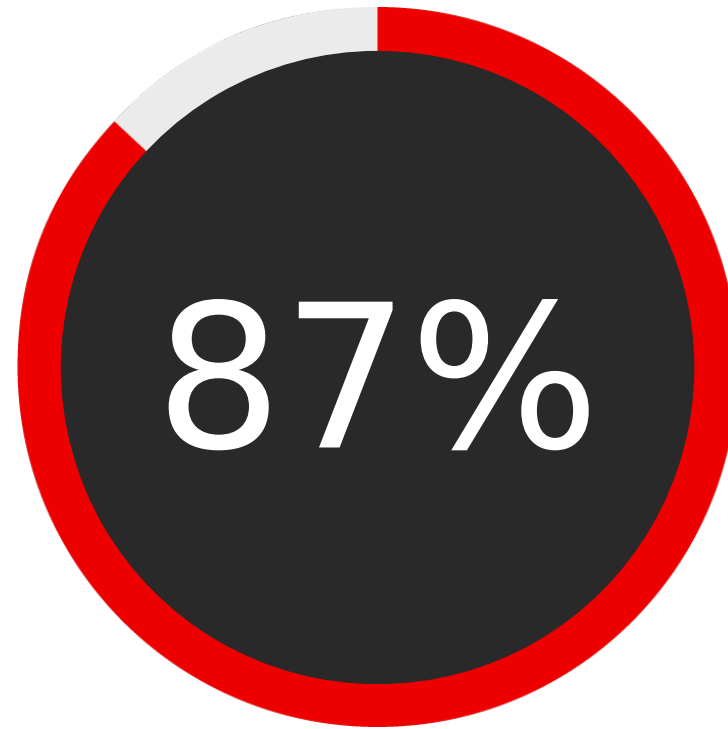
How do you bridge the data scientist and app developer environments?

Infrastructure complexity

How do you make the complexity of infrastructure invisible?

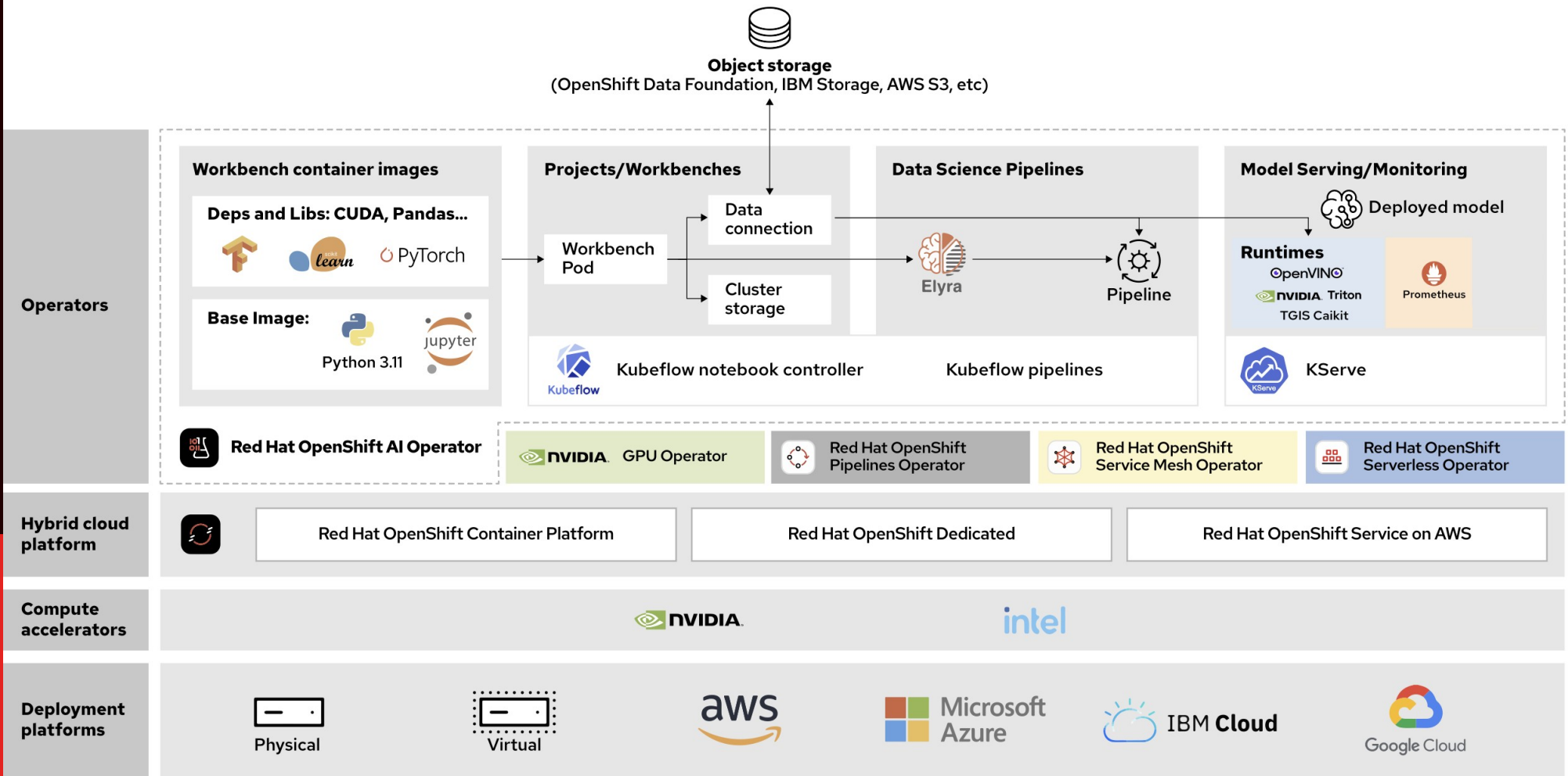
Realizing value

How do you safely realize the business benefits of AI innovation?

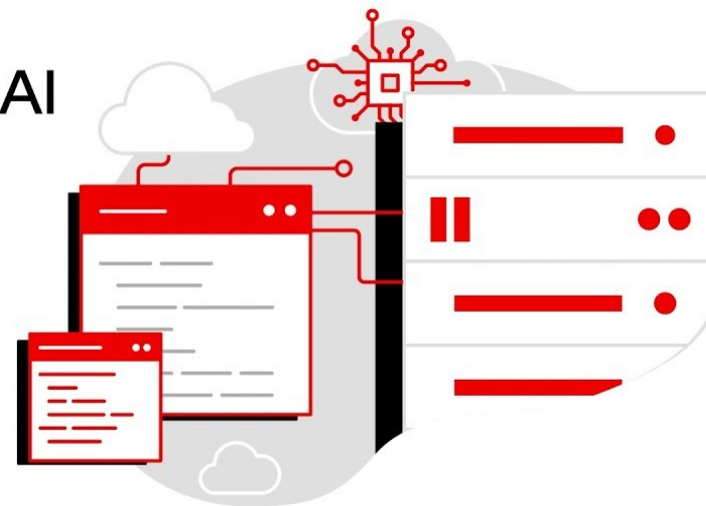


87% of AI projects never make it into production

Red Hat OpenShift Container Platform



**The
Development
Platform**



A **hybrid, unified platform** and **comprehensive set of tools**



Kubeflow





Pipelines

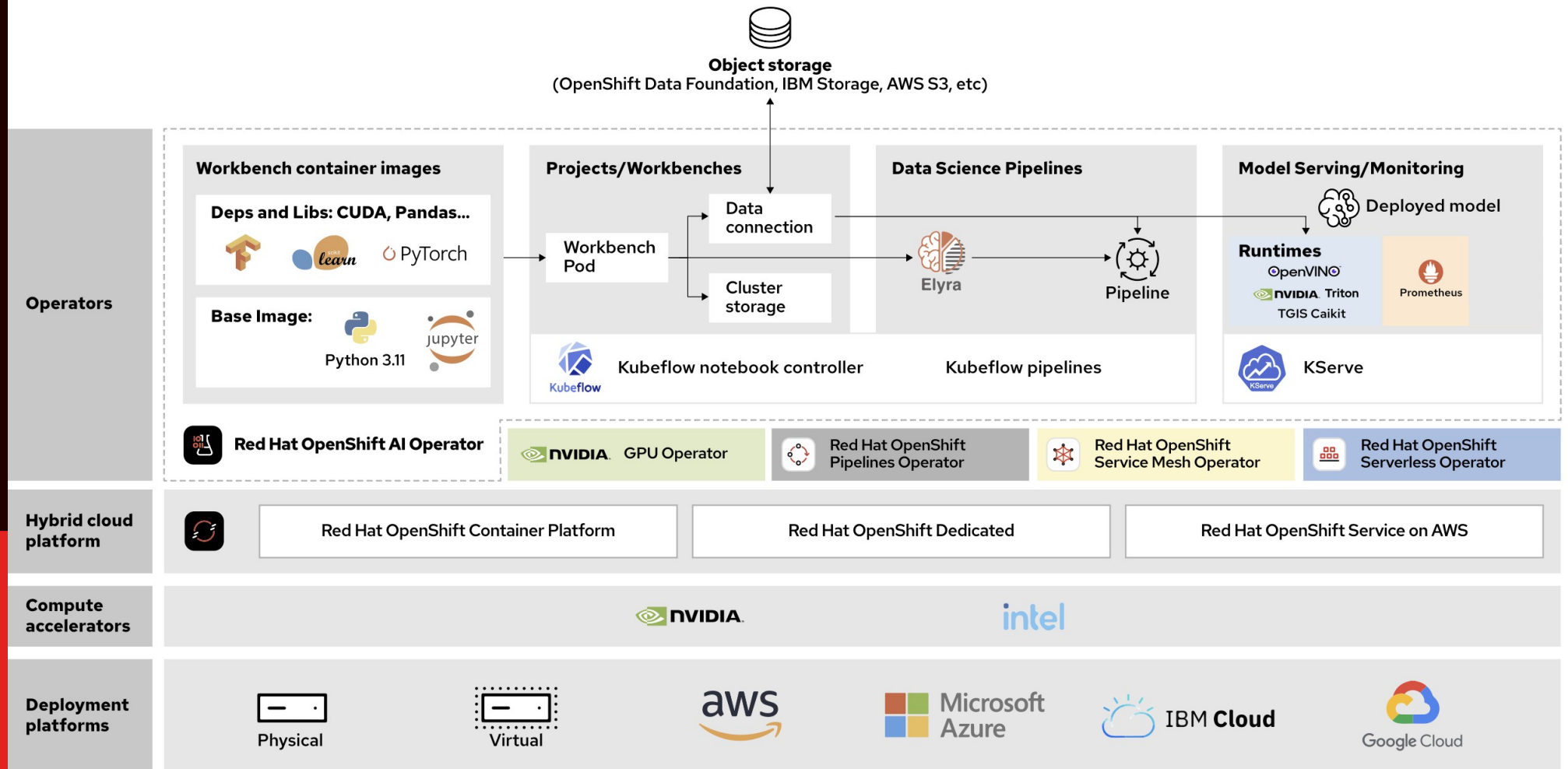
The screenshot displays the Databricks workspace interface. On the left, the file explorer shows the directory structure for a project named 'fraud-detection'. The files listed include folders for 'assets', 'data', 'pipeline', 'ray-scripts', 'setup', 'utils', and 'workshop', as well as several Jupyter notebooks (0_sandbox.ipynb through 5_rest_requests_single_model.ipynb), a pipeline file (6 Train Save.pipeline), a YAML file (7_get_data_train_upload.yaml), another notebook (8_distributed_training.ipynb), and 'LICENSE' and 'README.md' files.

On the right, the 'Launcher' menu is open, showing options for 'Notebook' and 'Console', both with 'Python 3.9' kernels. Below these, the 'Elyra' section is visible, containing four icons: 'Pipeline Editor' (highlighted with a red box), 'Python Editor', 'Documentation', and 'What's new in latest'.

Pipelines

The screenshot displays the JupyterLab interface. On the left, the file explorer shows a directory structure for 'fraud-detection'. The files and folders listed are: assets, data, pipeline, ray-scripts, setup, utils, workshop, 0_sandbox.ipynb, 1_experiment_train.ipynb, 2_save_model.ipynb, 3_rest_requests_multi_model.ipynb, 4_grpc_requests_multi_model.ipynb, 5_rest_requests_single_model.ipynb, 6 Train Save.pipeline, 7_get_data_train_upload.yaml, 8_distributed_training.ipynb, LICENSE, README.md, and untitled.pipeline. The 'untitled.pipeline' file is selected. On the right, the pipeline editor shows a sequence of two steps: '1_experiment_train.ipynb' and '2_save_model.ipynb', connected by a red arrow. The pipeline is titled 'untitled.pipeline'.

Production Interference





Wrap Up

- Buy Some Hardware with Nvidia GPUs
- OpenShift for Scaleability
- Develop your LLM solution on top of the OpenShift AI platform
- Move quickly from development to Production with OpenShift AI endpoint
- Congratulations you have integrated Open Source AI that adds value to your Business



We Are Piros



Let's talk about your challenges

Get in touch



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