



BNY MELLON

# ML ENGINE

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Operationalize ML Solutions



## OUR VISION

Our vision is to enable fast deployment of scalable Machine Learning solutions with minimal effort potentially leveraging the power of NEXEN



# Motivation

Why we did what we did?



Recurring delay in Operationalization



One stop generic solution



Scarcity in easy to use, off-shelf solutions



NEXEN Adoption



Need of the hour



## ML ENGINE - Features



Simple REST APIs



Always Available Service



Scalable - On demand



R / Python Support



Ease of Use



Light-weight Socket Servers



Developed in Java

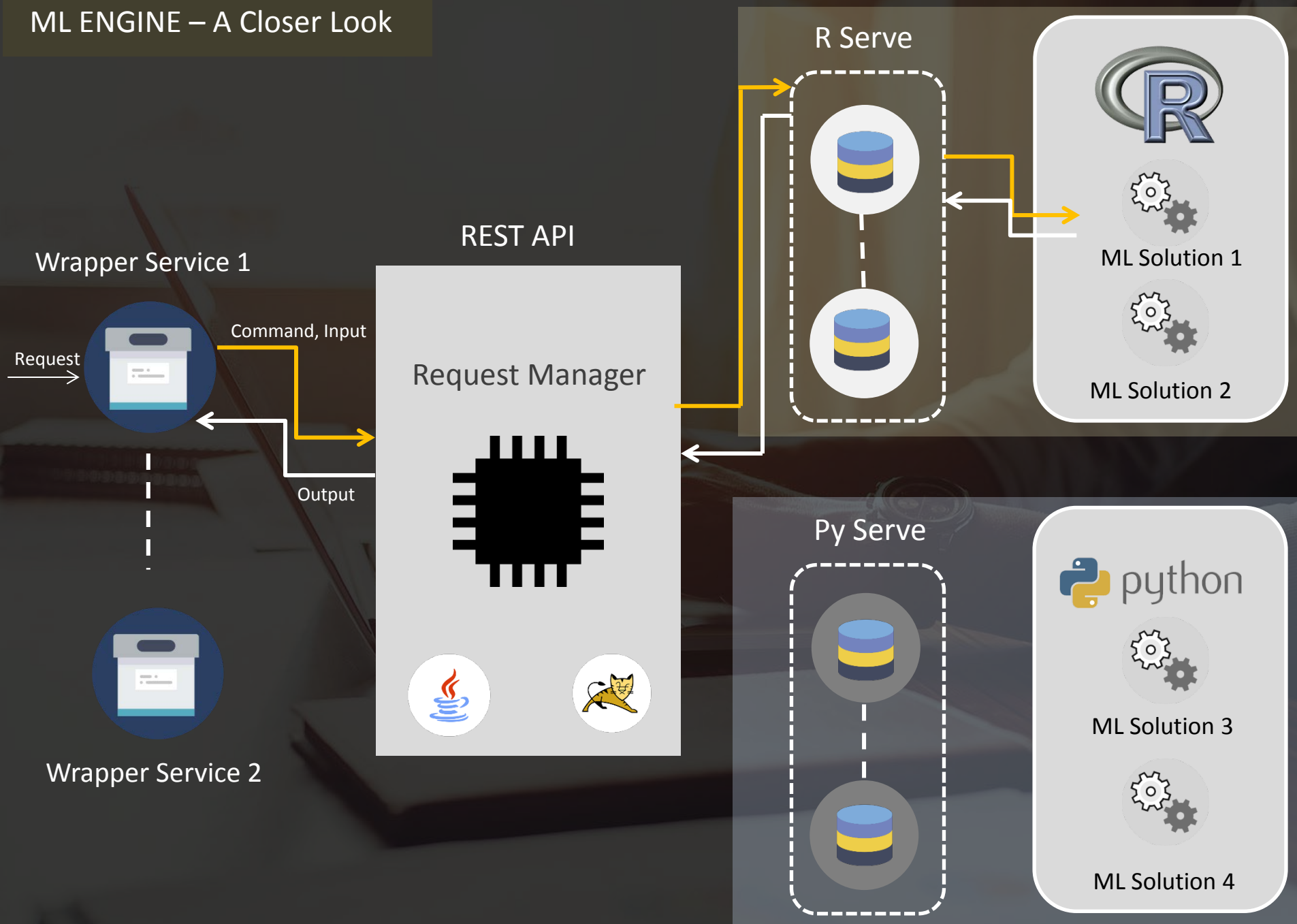


NEXEN Compatible



Deployed on Tomcat

# ML ENGINE – A Closer Look



# ML ENGINE – Use Cases

## STAT ASSIST

Application developed for business users to perform interactive statistical analysis on data

## ML Proxy Voting

Application developed for automating the Proxy Voting process

## DAG Email Routing

Application to route emails on the shared email box to appropriate folders based on content

## CIS Routing

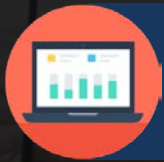
Application built to route client enquiries to appropriate service groups and teams

## ML RFP

Application to assist the sales team by recommending answers for client questions







## ML ENGINE - Demo

# ML ENGINE – Next Steps

## ML Solution Deployment



Angular JS based UI



Code Upload  
(FTP module)



Computational Node  
Selection



Auto Clone & Deployment  
of Wrapper Services

## API Standards



Swagger documents



Standardization



Deployment as NEXEN API



The background image is a dark, low-key photograph of a modern conference room. It features a long, dark wooden table surrounded by several ergonomic office chairs. Large floor-to-ceiling windows line the walls, offering a view of a cityscape at dusk or dawn. The ceiling has a grid of recessed lights, some of which are on. The overall atmosphere is professional and quiet.

Thank You!

For Discussions, Suggestions and Feedback

Performance Excellence Analytics on My Source Social

<https://mysourcesocial.bnymellon.net/community/continuous-process-improvement/performance-excellence-analytics>