



# Deployment of Machine Learning Models

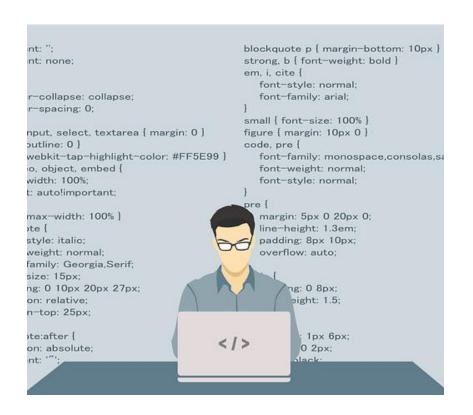
#### What is Model Deployment?

- The deployment of machine learning models is the process for making models available in production environments, where they can provide predictions to other software systems.
- One of the last stages in the Machine Learning Lifecycle.
- Potentially the most challenging stage.





### Why is Model Deployment Challenging?

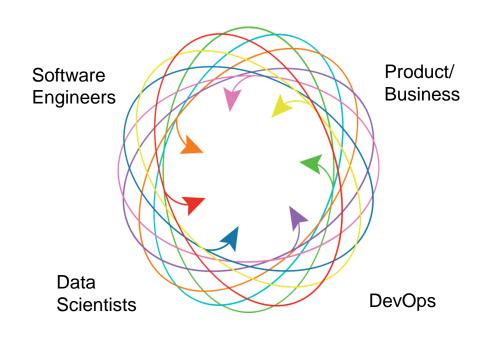


- Challenges of traditional software
  - O Reliability
  - O Reusability
  - O Maintainability
  - O Flexibility

- Additional challenges specific to Machine Learning
  - O Reproducibility



#### Why is Model Deployment Challenging?



- Needs coordination of data scientists, IT teams, software developers and business professionals:
  - O Ensure model works reliably
  - O Ensure model delivers the intended result.

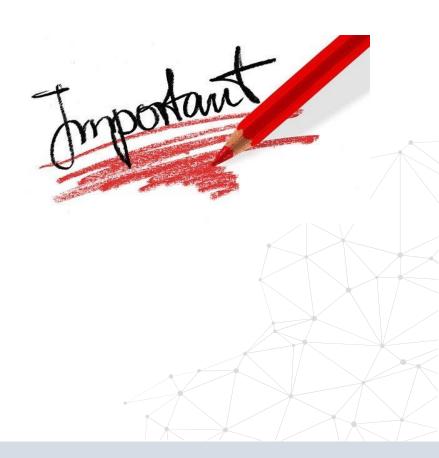
- Potential discrepancy between programming language in which the model is developed and the production system language.
  - O Re-coding the model extends the project timeline and risks lack of reproducibility



#### Why is Model Deployment important?

 To start using a Machine Learning Model, it needs to be effectively deployed into production, so that they can provide predictions to other software systems.

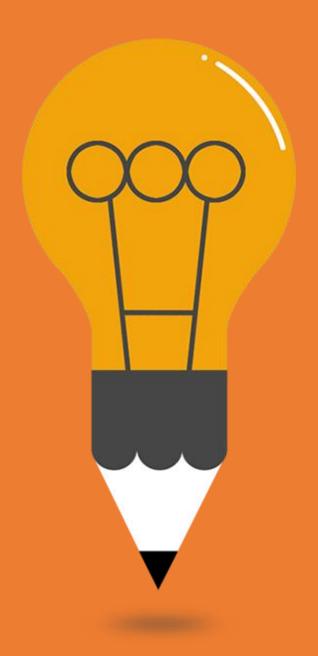
 To maximize the value of the Machine Learning Model, we need to be able to reliably extract the predictions and share them with other systems.





#### In the course...

Discuss **best practices** and **solutions** to mitigate these challenges and streamline the integration of machine learning models in production.







## THANK YOU

www.trainindata.com