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**IBM Developer**



# Automate Model Building Using AutoAI

**Mostafa Abdelaleem**

Developer Advocate, Egypt

**Khalil Faraj**

Developer Advocate, UAE

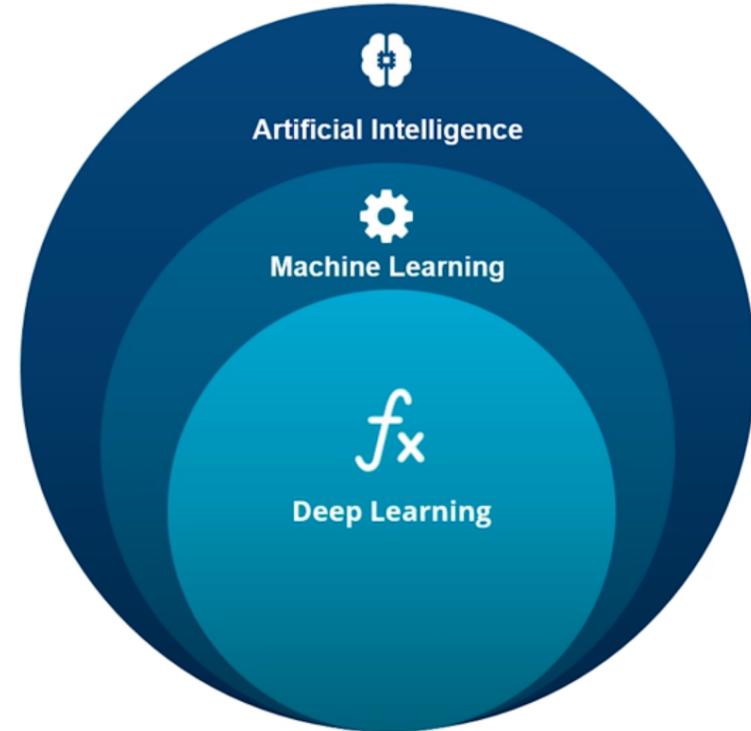
Get Started Here: [ibm.biz/ChurnAutoAI](https://ibm.biz/ChurnAutoAI)

# Agenda

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# Artificial Intelligence vs Machine Learning

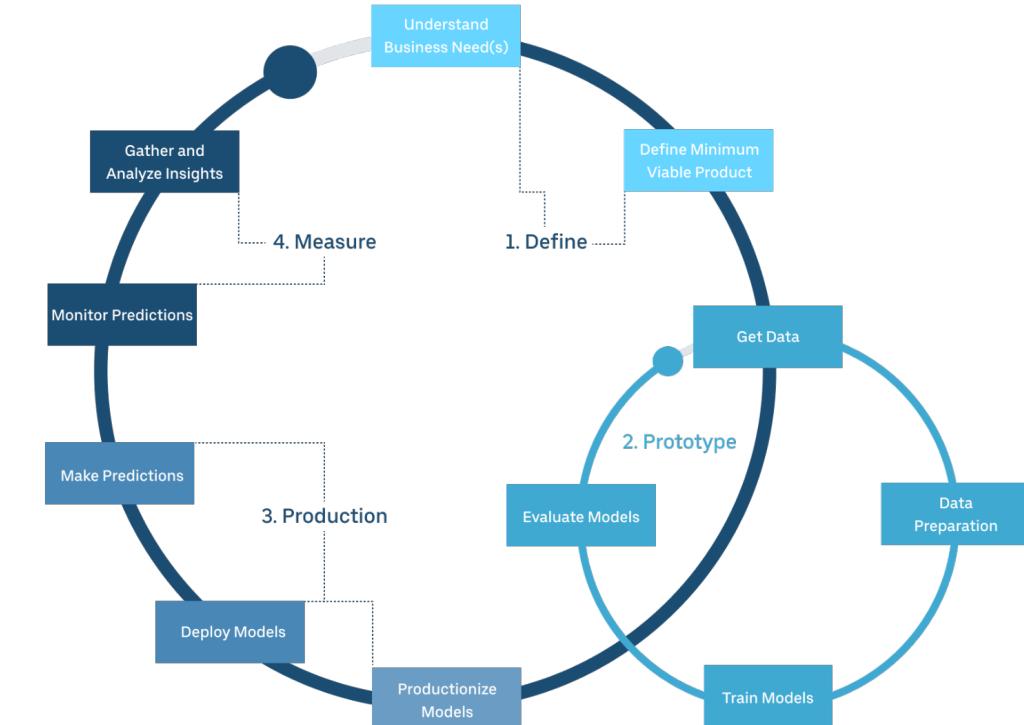
- **Artificial Intelligence** is the making of intelligent machines by enabling the machine to copy human behaviours.
- **Machine learning** is subset of AI uses statistics to enable machines to improve with experience.
- **Deep learning** is subset of machine learning that enables computers to solve more complex problems.



<https://www.edureka.co/blog/ai-vs-machine-learning-vs-deep-learning/>

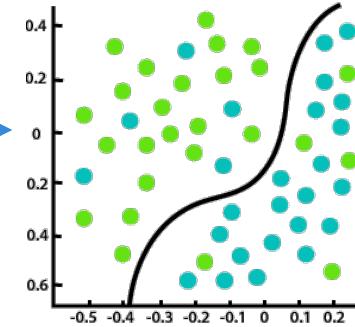
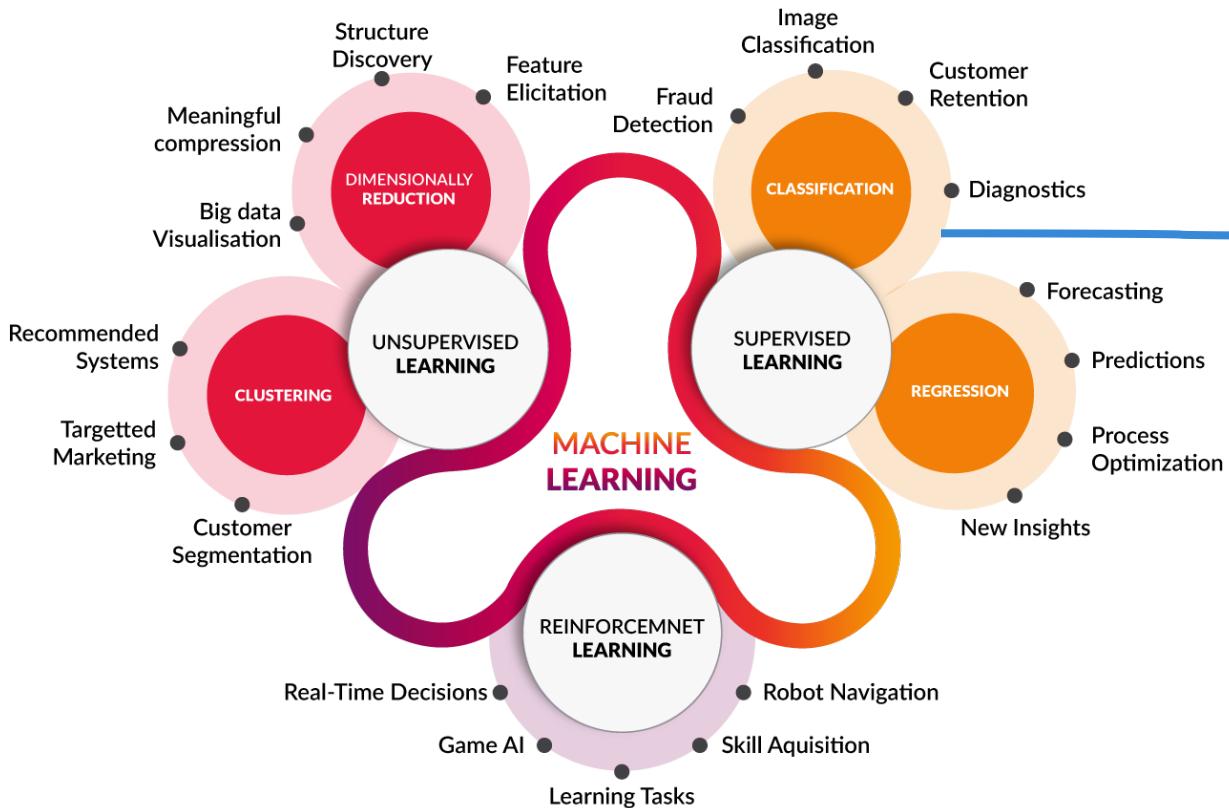
# Machine Learning Process

- Define the problem and solution
- Develop and prototype the model
- Produce the model
- Measure the model



<https://www.kdnuggets.com/2020/07/some-things-uber-learned-machine-learning-scale.html>

# Machine Learning Types

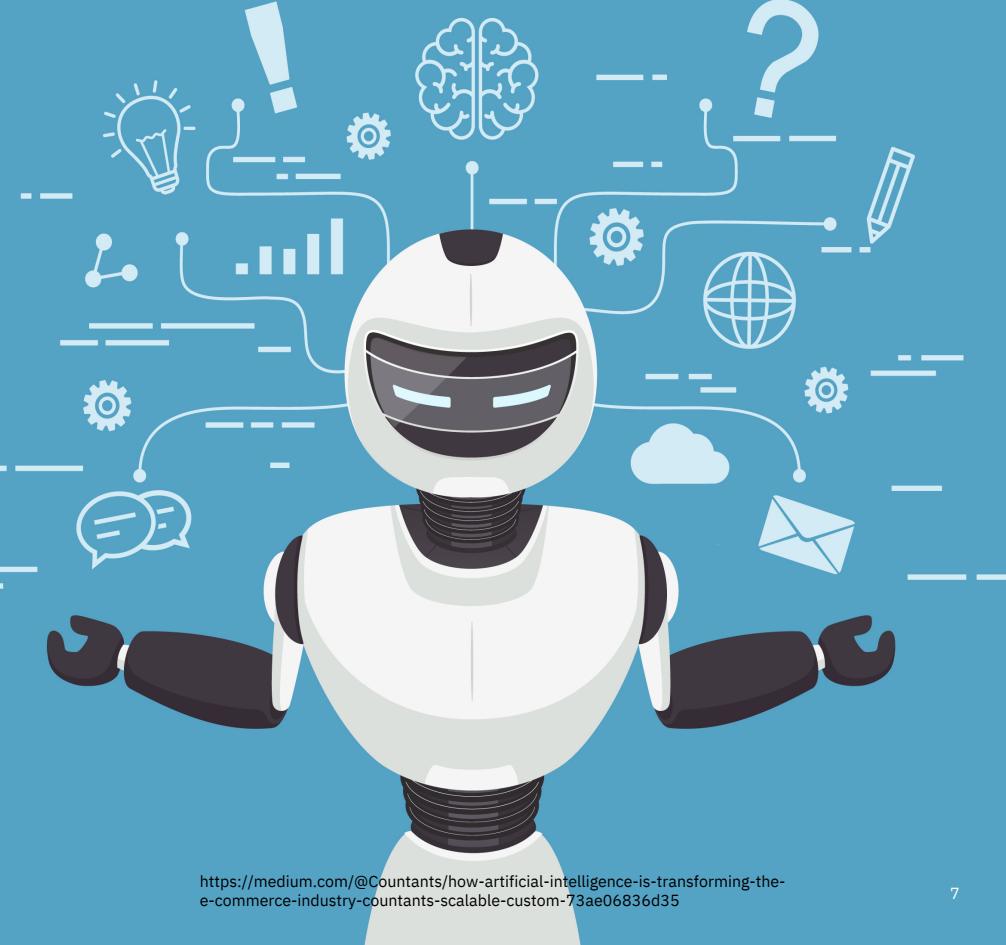


<https://laptrinhx.com/machine-learning-i-introduction-linear-regression-explained-3160564266/>

<https://towardsdatascience.com/coding-deep-learning-for-beginners-types-of-machine-learning-b9e651e1ed9d>

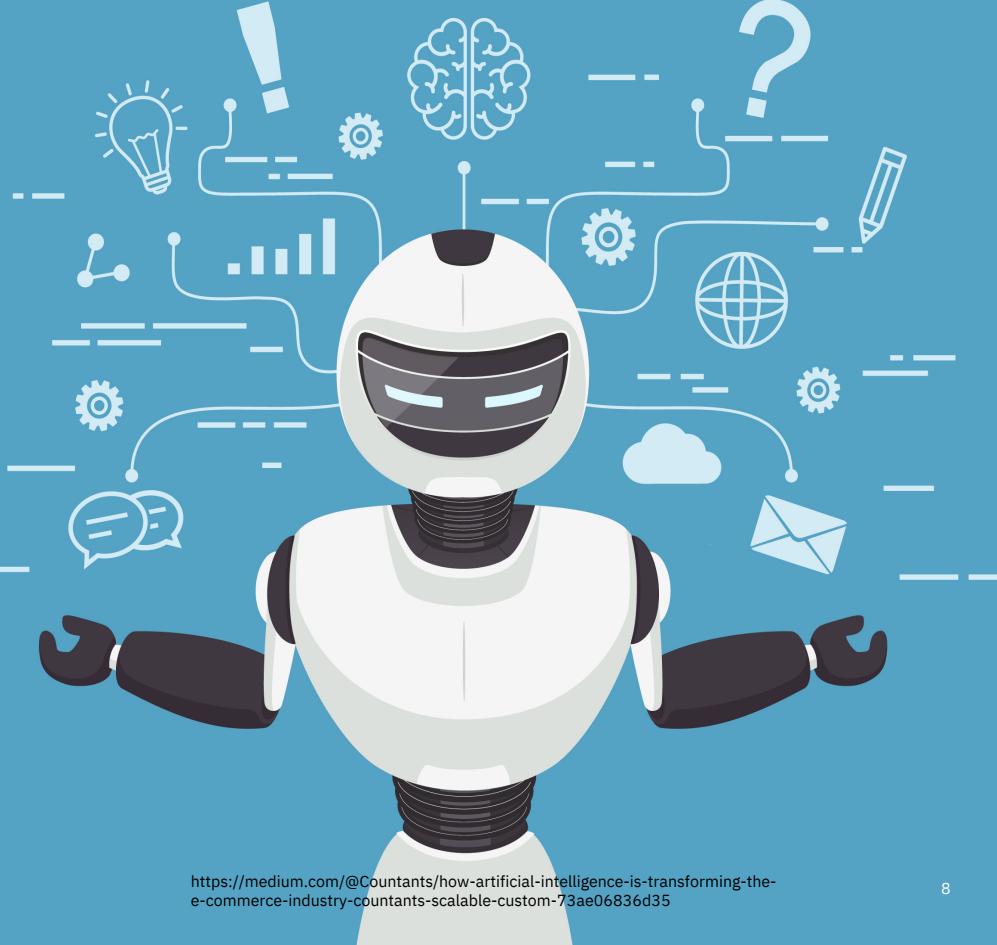
# Main Challenges These Days

- High demand for data scientists and ML engineers
- Lack of skills to meet the demand
- Traditional ML techniques are time consuming and require a lot of effort

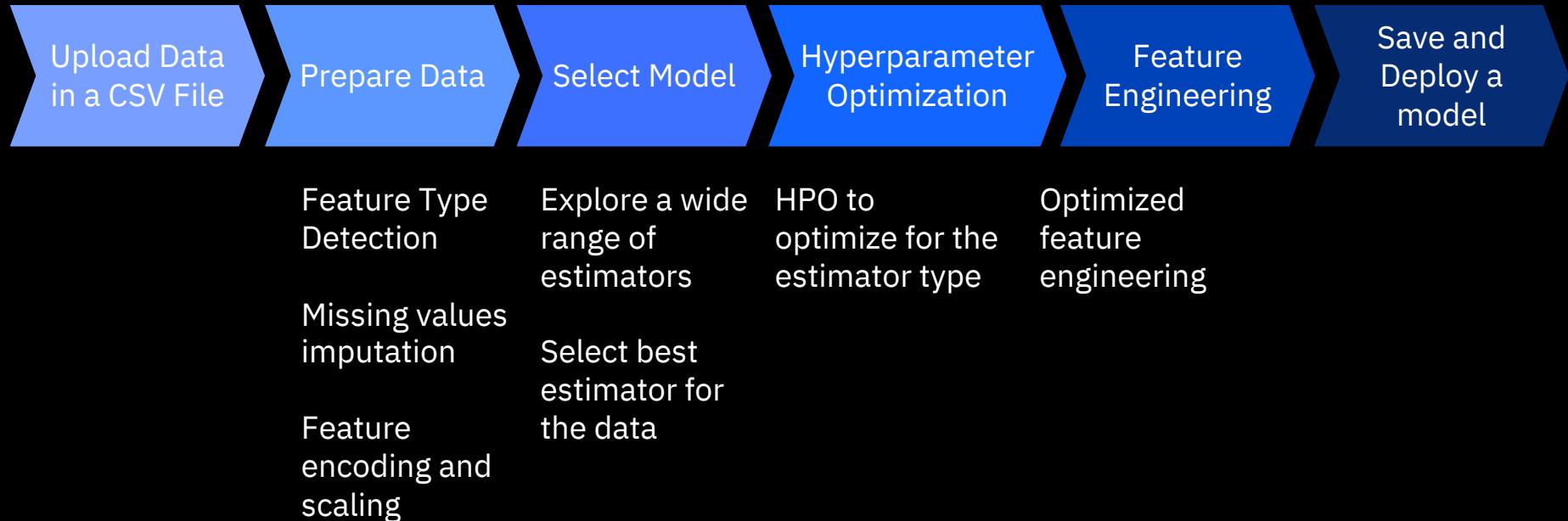


# Traditional Machine Learning

- Data preparation
- Deciding on the right algorithm
- Requires strict resources
- Deployment Challenges



# What is **AutoAI**?



# AutoAI Features & Benefits



## Build models faster

Save time manually prepping data and building models



## Find signal from noise

Auto-feature engineering makes it easy to extract more predictive power from your data



## Jump the skills gap

No coding? No problem – get started with a couple clicks



## Rank and explore models

Quickly compare candidate pipelines to find the best model for the job



## Discover more use cases

Embrace ML everywhere to disrupt and transform

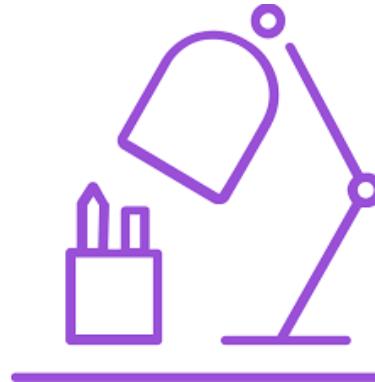


## Ready, set, deploy

Pipelines generated with AutoAI can be deployed to REST APIs with one click

# Hands On

- Sign up/Log in to your IBM Cloud Account [ibm.biz/ChurnAutoAI](https://ibm.biz/ChurnAutoAI)
- Follow along for the hands-on [ibm.biz/LabChurnAutoAI](https://ibm.biz/LabChurnAutoAI)



# Useful Links

Learn - develop - connect

**Get Started Here** ([ibm.biz/ChurnAutoAI](https://ibm.biz/ChurnAutoAI))

**Hands-On Lab** ([ibm.biz/LabChurnAutoAI](https://ibm.biz/LabChurnAutoAI))

**IBM Developer** (<https://developer.ibm.com/>)

**Meetup** (<https://www.meetup.com/IBM-Cloud-MEA/>)

Thank you.

**Mostafa Abdelaleem**

Developer Advocate

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mostafa.abdulaleem@ibm.com

**Khalil Faraj**

Developer Advocate

—

khalil.faraj@ibm.com



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