



Azure Machine Learning for everyone



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GitHub:

https://github.com/alpaBuddhabhatti/Global-Al-Bootcamp-London-Azure-Machine Learning/new/main

https://www.youtube.com/results?search_query=alpa+bu ddhabhatti







Microsoft Certified: Azure Data Scientist Associate

Microsoft



Microsoft Certified: Azure Developer Associate

Microsoft



Agenda

- 1. Machine learning and Azure Machine Learning
- ✓ What is Machine Learning (ML)?
- ✓ What is Azure Machine Learning (ML)?
- ✓ Why we need Azure Machine Learning (ML)
- ✓ Steps to create Machine Learning Model
- ✓ Azure Machine Learning Designer Tour!!!

2. DEMO

- ✓ Azure ML Studio Using a classification models to predict approval of loans
- ✓ Test a Machine Learning Model using Postman
- ✓ Consume a Machine Learning Model using Azure Data Factory







What is Machine Learning?



A Computer Program/system that can learn from



Data or Examples

It finds pattern from experience and able to make predictions about the future.

Without being explicitly programmed or told to do





What is Azure Machine Learning?

It is a cloud-based service for creating and managing Machine Learning solutions

- Create ML Solution
- Manage ML Solution
- Train ML Solution
- Deploy ML Solution

- Analyzed Data
- Data Cleansing
- Data Transformation





Why Azure Machine Learning?

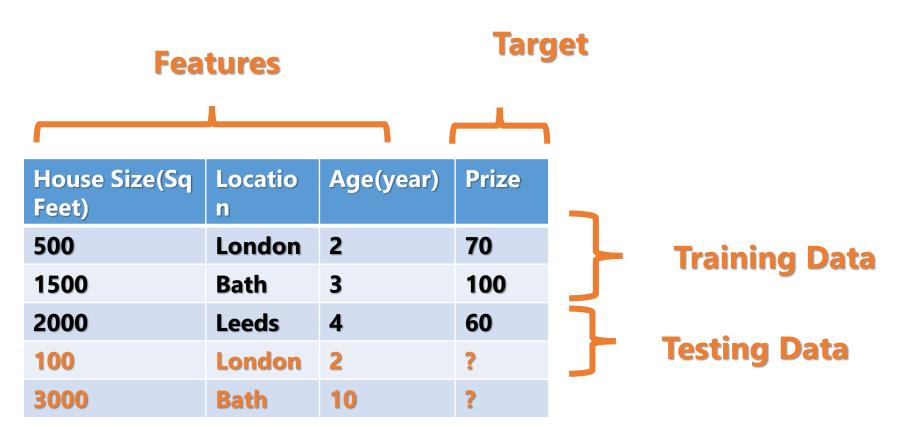
- **✓ Azure PaaS Service**
- **✓ No Code, Low code, Code First**
- **✓In Built Algorithms**
- **✓ Speed up Data science process**
- **✓ Deployment**





Basic Key Terms of Machine Learning

- **≻Features**
- **≻**Target
- **≻Training Data**
- **►**Testing Data







Steps to create Machine Learning Model

- 1. Data Processing
- 2. Feature Selection
- 3. Split Data
- 4. Train Model
- 5. Score Model
- 6. Evaluate Model

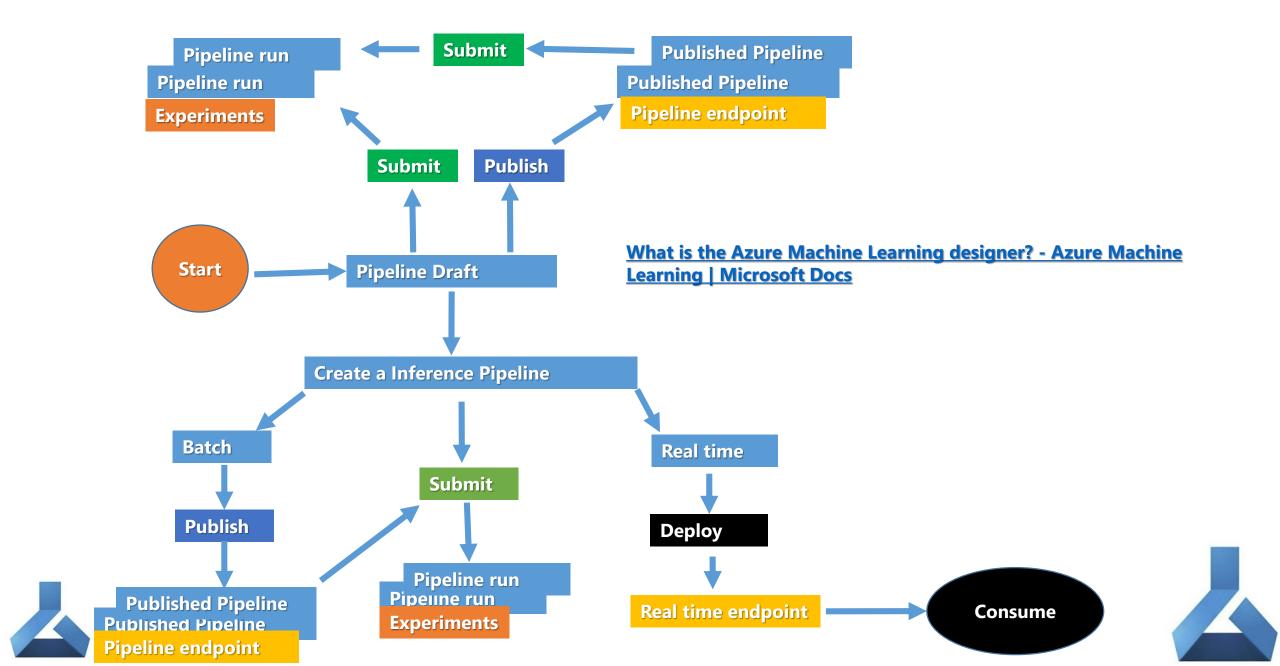




2. DEMO



Model training and deployment





DEMO -

Approval for a loan using Machine Learning Designer



Steps to create Machine Learning Model

- 1. Create a new pipeline
- 2. Import data
- 3. Prepare data
- 4. Train a machine learning model
- 5. Score a machine learning model
- 6. Evaluate a machine learning model
- 7. Create a real-time inference pipeline
- 8. Create an inferencing cluster
- 9. Deploy the real-time endpoint
- 10. Test the real-time endpoint





DEMO -

Test a Machine Learning Model Using

Postman





DEMO -

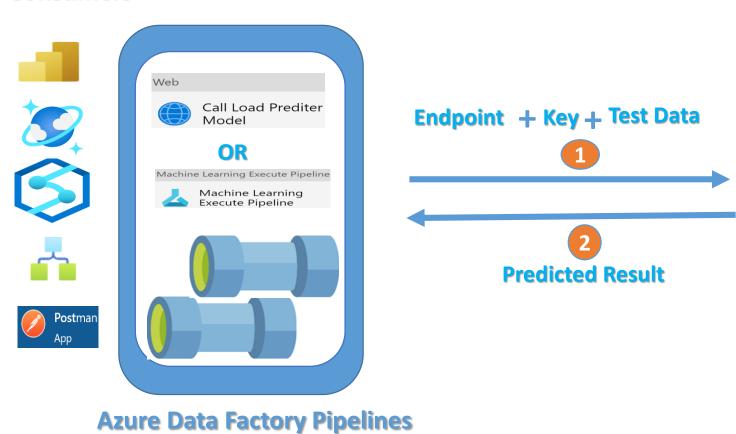
Consume a Machine Learning Model using Azure Data Factory

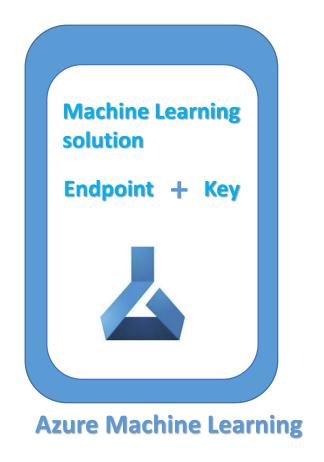




High level Solution Designs

Consumers









Conclusion

- **✓ Azure Machine Learning**
- √Steps to create a Machine Learning model
- **✓** Approval for a loan using AML studio
- **✓ Test Machine Learning Endpoint using Postman**
- **✓ Consume Machine Learning Endpoint using Azure Data Factory**









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Questions !!!



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