



# AutoML Using Microsoft Azure

DJS InfoMatrix - ML Domain (Pranav)



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# What is Azure ML Studio?

- Cloud service for accelerating and managing the machine learning (ML) project lifecycle.
- ML professionals, data scientists, and engineers can use it in their day-to-day workflows to train and deploy models and manage machine learning operations (MLOps).





# Features in Azure ML Studio

01

Notebooks

02

Visualize run  
metrics

03

MLOps

04

Machine  
Learning  
designer

05

Data labeling


06

Automated  
machine  
learning





# AutoML

- It is the process of automating the time-consuming, iterative tasks of machine learning model development.
  - It allows data scientists, analysts, and developers to build ML models with high scale, efficiency, and productivity all while sustaining model quality.
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## Automated machine learning



User inputs



Data



Target metric



Constraints  
(time/cost)

Iterations

Training scores



1

Features + Algorithm + Parameters → 50%



2

Features + Algorithm + Parameters → 76%



3

Features + Algorithm + Parameters → 53%



4

Features + Algorithm + Parameters → 95%

...



n

Features + Algorithm + Parameters → 43%

Leaderboard

Rank	Model	Score
1		95%
2		76%
3		53%