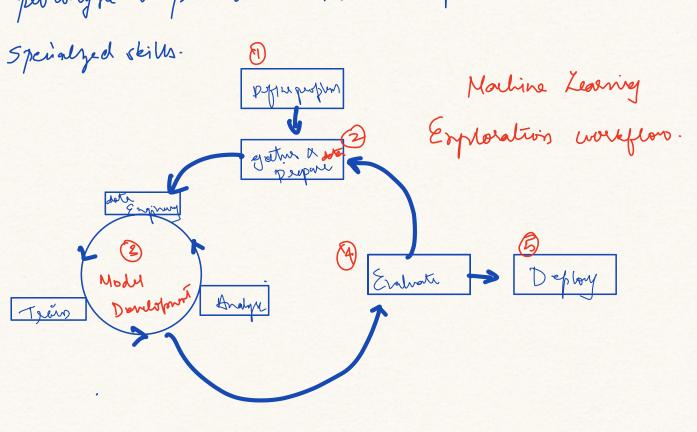
Automated Machine Zearing

When we chook marine boring project and we felt normal training is your only oftion to build a marking having Modre. With manual training you write rode wing an M2 framework to beate a model, you choose which algorithm a streetienty time hyperparameter to find the light model.

In peartine building a markine leating model from peoloty he to peodulion involves repetitive touch K



Repetition Tarks

Me worlefton involve expetitive work & experimentations

Dreine Model divelopment you typically need to explore different

Combinations of algorithm & hyperparameters to identify the most appearail and.

Steps like below

O Diffunt Combittions of algorithm & hyperparameter.

2) Weste specialized code to train the model ktlin ordjust the code to him enpairments with different ML

=> All this works fine for small emplorentary Model.

Sperialized Skills -> Manually developing an ML model troobs

Sperialized Skills -> Handa data scientist to make this

work.

Men there is need to automate this tark hig

Auto ml

AUTO ML

It softe process of automating certain tasks in a mechine learning work flow.

This one set of tools & butmologiers that
building marriage bearing models forthe & more anemible to a
bridge group of words. Through automation can help throughout
the ML work flow. The bulks that are often amoriated

with Autom are the ones included to the model development

Repetellire Tarks

- 1 Peta Engineering
 - -> fatue Ergineing
 - -) Facture Selection
- 1 Training
 - -> Identifyrig an appeirate ML algo
 - -> Saluting the best hypreparameters
- 3 thalyris

-> Evaluating metries generated during training barries band on text & nationalities datasets.

Benefits & Limitations

Brugits

- O To Save time
- 3 Improve quality of ML
- 3 To bild an ML model without heading specialized Skills.
- a To smoke that a dataset.
- B 10 evaluete a dataset
- 6 To enforme her peatines.

- Defeatel quality may not be as good as manual training
- 3 Midu Scarch & complenity can be opaque
- 8 Mutiple AutoML ems may show more variance.
- 1 Models can't be ustorized during training

Dater regnisments

- Towary model we need, here my sutoost you can ignue the architecture & by preparameture. and four primarily on quality of your date.
- 3 Thue are also specialized Auto ML can train would with significantly less data herance they we transfer bearing. Transfering information from one norther hosted of engueing hindreds of thousands of thousands.

 The enamptes do buld an image Clare firstion model.

If AULOMI as eight for you?

-> Good with limited experience building ML involute. One experienced teams that are booking for productionty gains and don't have customization requiements.

In important & the team needs to be able to whomise this Model. Manual training may enquire most time for experimentation & brilling a solution,

Crelly Started

Automb took

O Tools that equius no working

2 API & CCI TOOG.

Work flew AntoML

O Problem defention -> Martine learning problem framing.

& Pater gathing

Data preparation

-> Chan & format data

- -> Person jeakne bensfornation
- (mo-code Autom)
 - -> Input deta
 - Analys date
 - Regnedata
 - -> Senatic Charley
 - Temsformations.
 - -> Configura AutoML sun parameturs.
- 3 Evalvate Model.
- @ Peodution: jatros -> hup & deploy your Model win
- (A) Petain Model.