STRUCTURING ML PROJECTS	PAGE NO.: DATE: / /	
Horthogonalization		
	ng acc	
to your Preference.		
And you need these knobs to control	only	
And you need these knobs to control their corresponding feature/setting		
+ Chain Assumptions in ML		
	etter notwork	
· Fit training set well on cost for Ac	dam	
Rome	I vi zation	
· Fit der set well on cost for -> Riggs	er train set	
Fit I I	betron	
. Fit test set well on cost fur - Bigger	L der set	
· Performs well in real world - che	so or	
* Charles and In	fu	
* Single no evaluat metric For classifiers, we verally use two metrices- precision & recall. To An there's a trade off b/s the tu These can be reduced to motric - the fi score: 2. pre		
makere we usually use to	o evaluato	
thereby theasion & reedle. To Ar	d often	
There a trade of bho the tu	00.	
a notice to	a single	
score: 2. pre	vision recall	
precis	tion e reall	
Dev set & having a single evaluate metric speeds up the amodel selection		
process up the amodel selection		
process		

* Satisficing & optimizing metric Lets say we have two constraints accuracy & running time eg we want the max accuracy for time < 100 me Twis is remaily weed in wakeroords in speech recognition.

Wakewords: Alexa, Ox Google, Hay Siri etc. * Train / dev / Eest sets Should come from the Same dist - Lougier objects des les de metrics

- Classifier objects with 3% accessification

- Model A works with 3% accessification

- Lough don't want the users to be

- clisplayed with a pernographic

- mage lin the 3% error trangel too home the metric m & 1 (g + y) add another variable were $m \neq w \perp (\hat{y} \neq y)$ w = (1 non forn

PAGE NO	D.:		60
DATE:	1	j	

# Error Analysis	
Incorrectly labelled example	0
- De algos are quète	robust to random errors
but not to	
Systematic error	Some dog waso incorrectly labelled as cat
	incorrectly labelled as cat
all of the white colored	
pups were labelled as cate	
	^
add an additional column	for incorrectly labelled
examples.	0