	ASSIGNMENT
	Random Forest.
Na.	from aflearn. datasets import Load digits
	from splearn. datasets impôrt Load-digits digits = load-digits()
	% matflotlib inline
	imbort matflotlib. Byflot as flt
	"matflotlib inline import matflotlib. Byflot as flt import seaborn as sns; sns. set()
	Lie = felt. figure (figsize = (6,6))
	frq subflots _ dajust ( Left = 0, right = 1, bottom=0.
	fig = felt. figure (figsize = (6,6)) fig. subflots _ dajust (left = 0, right = 1, bottom=0, tof = 1, hefare = 0.05, wefare = 0.05)
the west	Commission and a collection of the collection of
	for i in range (64):
	0x = fig. add_subflot (8, 8, i+1, xficks=174 ficks=1)
	ax.imshow (digits. images (i7, cmaß = flt.cm. bins
	= interpolation = 'nearest')
	as. text (0, 7, str (digita. target (i7))
1,429.7	
	from sklearn model-kelection import brain-test-split
	from sklearn ensemble impost Randomforest Classifier
9 1	

Xtrain, X test, ytrain, yfest = train - test\_sflif (digits.data.

digits.forget, transmentate = 0)

model = Randon Forest Classifier (n\_estimators = 1000)

model - fit (xtrain, ytrain)

yfored = model - fredict (x test) from sklearn imfort metrics

print (metrice. classification-report (yfred, yfest)) from sklear. metrics imfort confusion-matrix

mat = confusion-matrix (ytest, ybred)

sns. heatmap (mat. T, square = True, annot = True,

fmt = 'd', char = False)

plt. xlabel ('true label')

plt. ylabel ('predicted label')