	15/06/2021 SUB: MACHINE LEARNING NAME: RRATHIBHA.R
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Lab test -2 CLASS: 6B.
	USN:1BM18CSOF4
(5.	Somplement the non parametric locally weighted regression algorithm in order to fit data point. Select appropriate dataset for your experiment and draw graphs.
	algorithm en order posit data pointe, select appropriate dataset
	for your experiment and draw graphe.
	from my Emport #.
	Emport operator.
	from 08 Emport lætdir.
J	amport matplotleb.
2000	Emport matphotheb, pyphot as plt.
	Eniport pandas as pd.
	from murpy. linalg emport *
	det kernel (point, xmaxt, x):
	m, n = shape (xmat)
	weight = mat (eye ((m)))
	for gen range (m)
	d:01 - norut - X/4/
	weights [y, f] - exp (diff * diff. T (-2.0 * k * * 2))
	retign weight.
	V
	det lovalweight (point, xmat, ymat, k):
	wer = kegnel (point xmat, k)
	def localweight (point, xmat, ymat, k): were = kegnel (point, xmat, k) W = (X.T* (were *X)). 2 * (X.T* (were * ymat.T))
	refuse w.

15/06/2011 Prathibha P - 1BM18C8074
det bocalweightlemene (vnat mal 1):
Joseph Mary Mark W.
m, n = 8hape (x mat).
for l'in range (m):
ypred [9] = xmat [9] * local weight (xmat[1], xmat, ymat, k)
rehan ypred.
 daha = Poliread_cev ("daha.cev")
X = array (daha.x)
 y = array (daha. y).
mx = maf(x)
my=mat(y)
 m= shape (mx) [1]
 one = mat (ones (m))
X = hstack ((one:T, mx.T))
Set K.
ypred = local weight Rogresson (x, my, 10)
Sortander = X[:,1].augsort(v)
X sort = x [sort Pudex] [:,0]
frg = plt.france()
ax = fig. add - subplot (1,1,1) Ax. Scatts (2, 4, Color - areas")
ax plat (x20x1-1: 1) warrend [Sext-tradex] along in in
ax. Scatter (n, y, color = "green") ax. plot (x8vrt-[:, 1), ypread. [sortindex], color = "red", linewidth plt. xlabel ("x") =5)
plt.ylabel("y")
plt. show ().
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