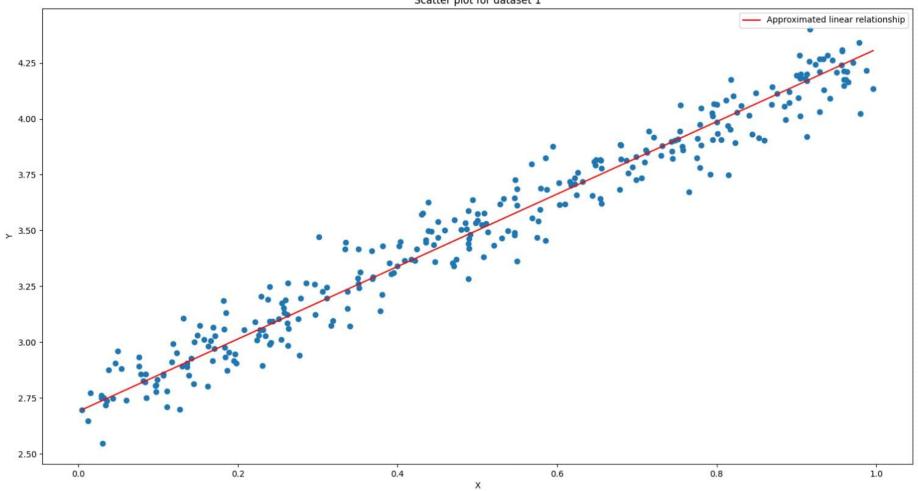
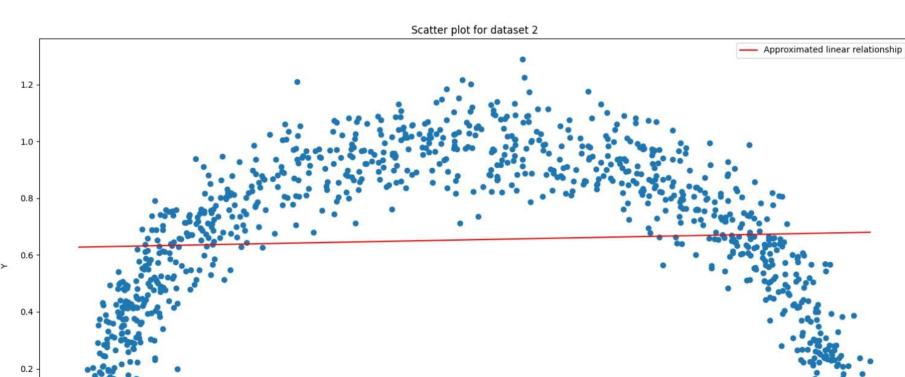
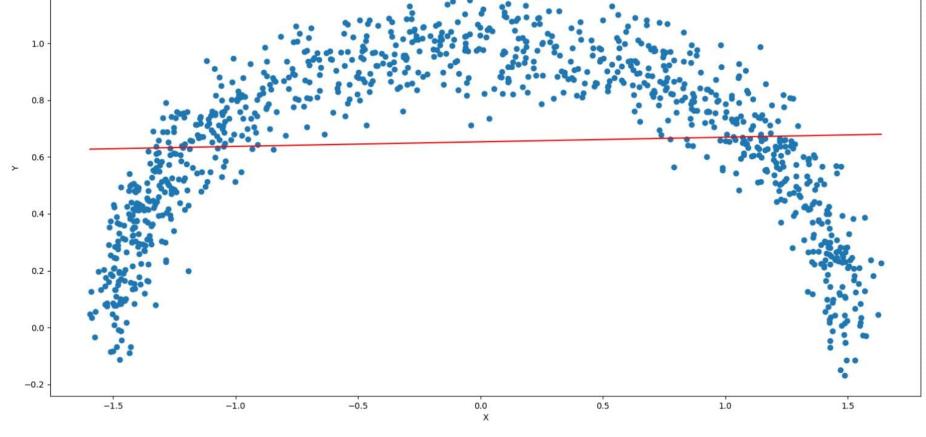
3 a) Let il be mean of given sample dada and C pe the co-various co matrix. Let v be of rector along the disection in which spread is maximum, then line passing through mean 8 parallel to IV will give our to linear approximation relationship between X & Y. eigenvalues det V, & V2 of C with by, & bz. v.1.0.9 5,52 in direction in V.

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3 For first set of points, one can be infer profrom the scatter plot that those set of points can be nicely placed placed around a line as relation seems diversions 98P cakelated Cinear relationship, it is a good approximation

DATE

While gos second sets of dodg, one can clearly inter that dota points are following a curry or non-like ar pattern which is know not easy for part in 9 r linear volationslip hend diversions are larges and approximation is not that good compared to set 1.