Experiment 4 Snashwat Shah
6000 4220126
C2-2 Div 6
and the second of the second feet of the second fee
Aim: Implementation of linear Regression for Single variate and multivariate
Theory: Linear regression is a fundamental statistical prethod used for modeling the Velationship between one or more independent vasuables and a dependent vasiable.
It assumes a unear relationship between the variables
aining to find the host-fithing line that maximizes the
Sum as savared differences between observed and particled
values.
It used in finace to predict Stock pieces. It is used
to exteast insights from data and make informed
predictions in weigns domains.
Single variate that repression
we model the relationship between a single independent and
a dependent vacuable. The goal is to find the heart-fit
be represented by y=mx+b when m is the slope
& b is the y-interrupt.
Multivasuante Unear Vegression
we model a relationship between multiple variables. The
Model equation becomes: y = bo + b, x, b, x, t b, xp
Where bo is the yirdercept and b, by be ante
co-efficients. The goal is to minimize the sum of
savened differences. This approach accomodates the
complexity of real world scenesios with multiple Predictions
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between Variabres									
Conclusion!								mult	
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