

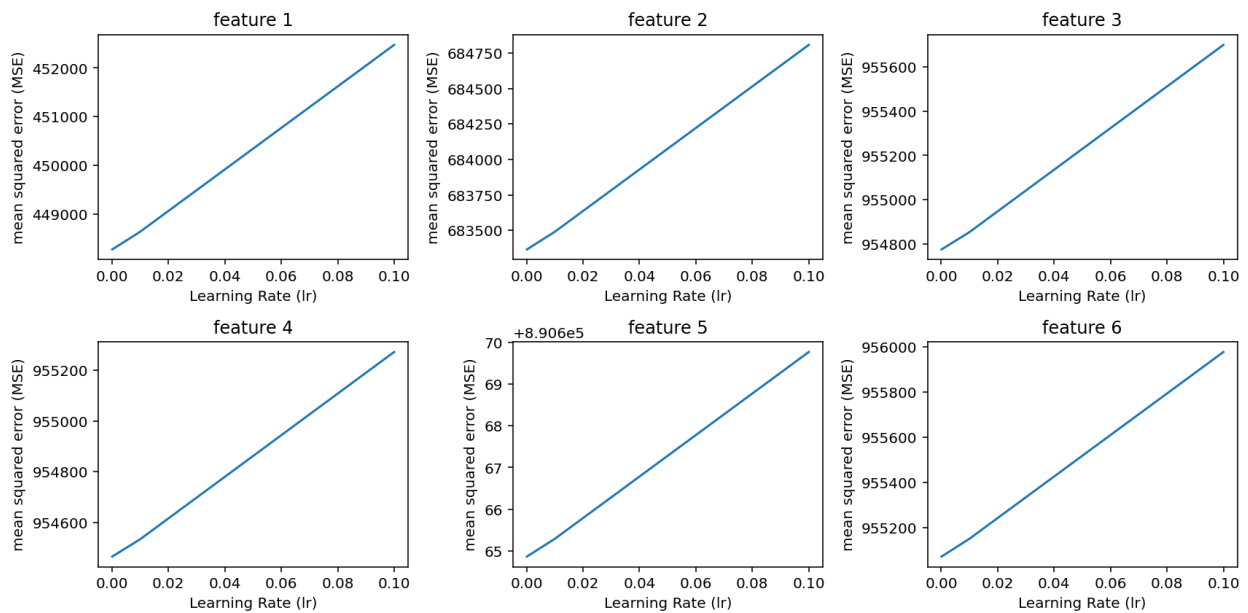
**Name :** عبدالله بدر عبدالعزيز عبداللطيف

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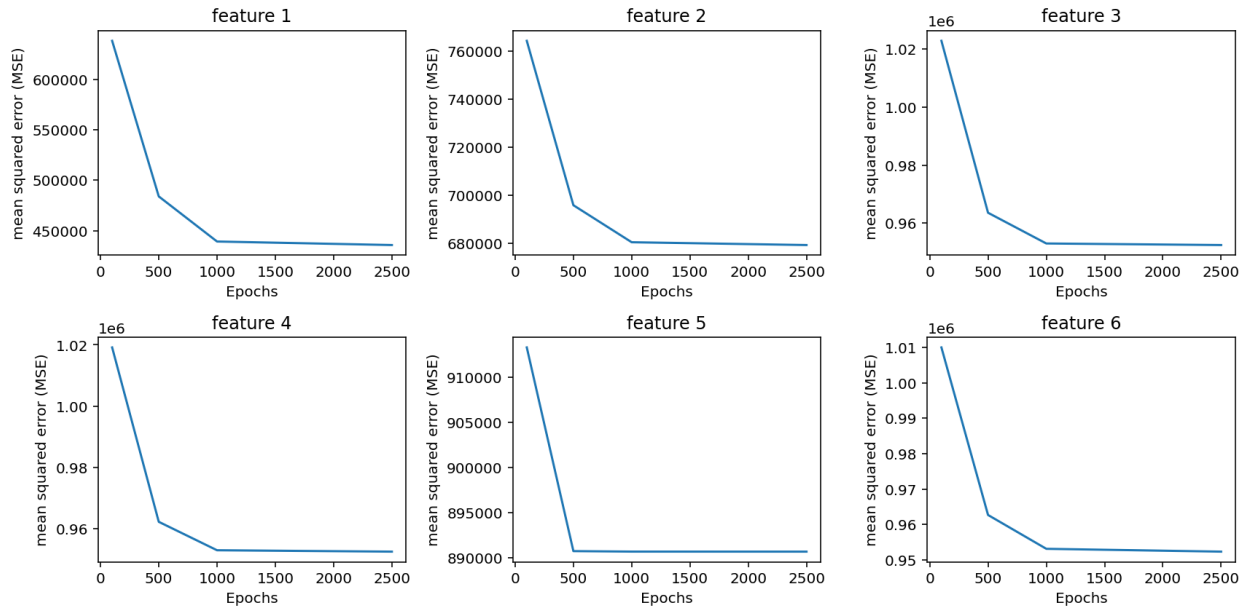
**UMS-Level :** level-4

Feature Number	MSE ( mean square error) With epochs	Epochs	Learning rate	MSE ( mean square error) with lr)
1	435891.21591 65255	100	0.1	448281.252 4986695
2	435891.21591 65255	100	0.1	448281.252 4986695
3	435891.21591 65255	100	0.1	448281.252 4986695
4	435891.21591 65255	100	0.1	448281.252 4986695
5	435891.21591 65255	100	0.1	448281.252 4986695
6	435891.21591 65255	100	0.1	448281.252 4986695

## Plots Contains MSE vs Learning Rate(LR) :



## Plots Contains MSE vs Epochs :



## **Conclusion:**

**From the sublots , we can conclude the best feature we can used to predict the revenue of the cafe shop is the first feature which is it : “ Number of Customer “ with mean sqaured error = 435891.2159165255**