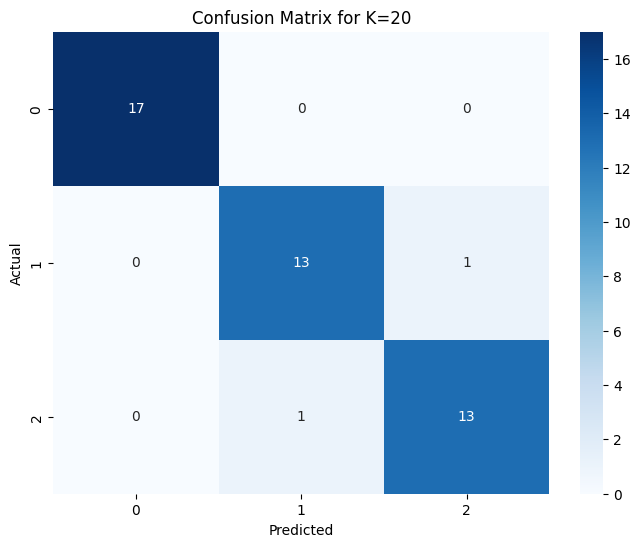
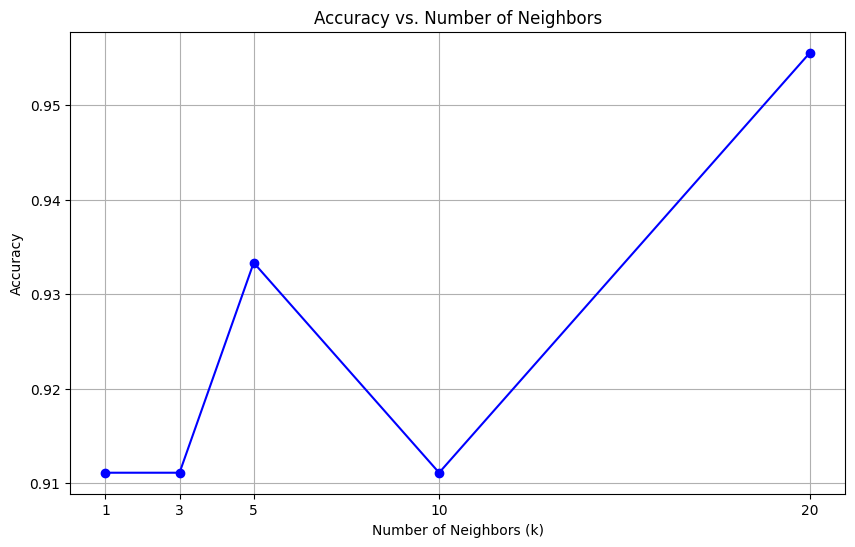
a. Experiment 1: Plot of Percentage Accuracy vs K should be shown for [KNN\_Normal].

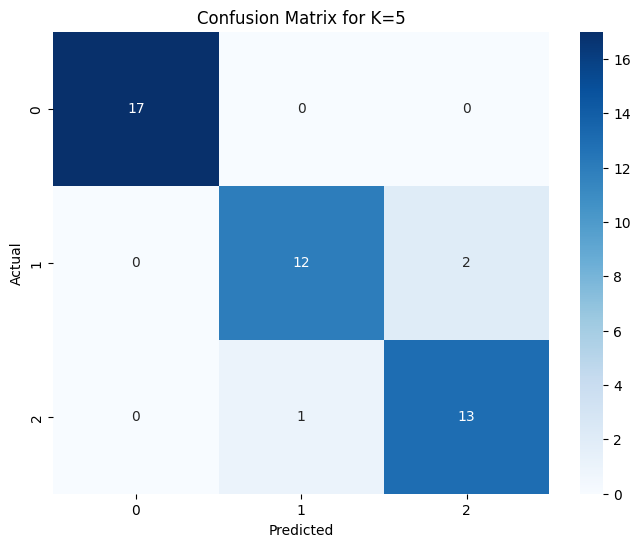
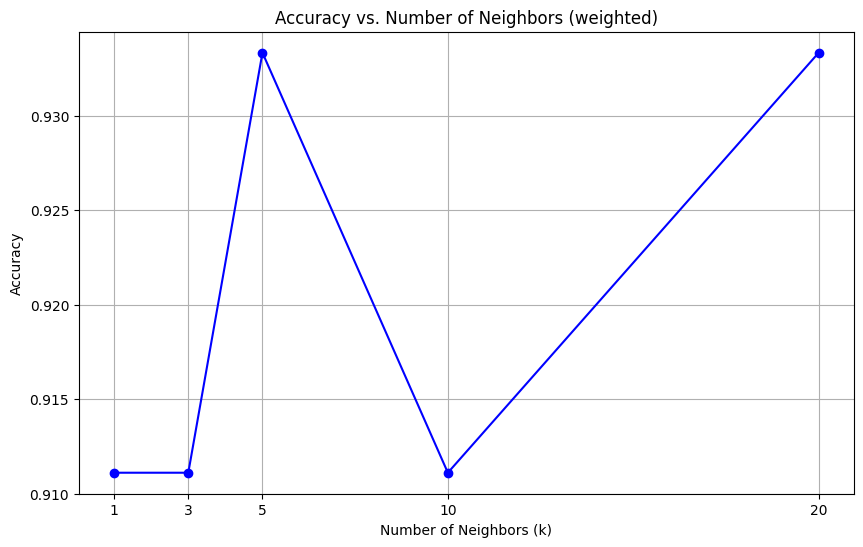
Also mention the best choice for the K and the corresponding confusion matrix.



Best k=20

b. Experiment 2: Plot of Percentage Accuracy vs K should be shown for [KNN\_Weighted].

Also mention the best choice for the K and the corresponding confusion matrix.



Best k = 5

c. Experiment 3: Report the performance with and without noise levels. Comment on the

robustness of [K-NN\_Normal] and [KNN\_Weighted] to noise in the training dataset.

Accuracy\_normal: 0.956

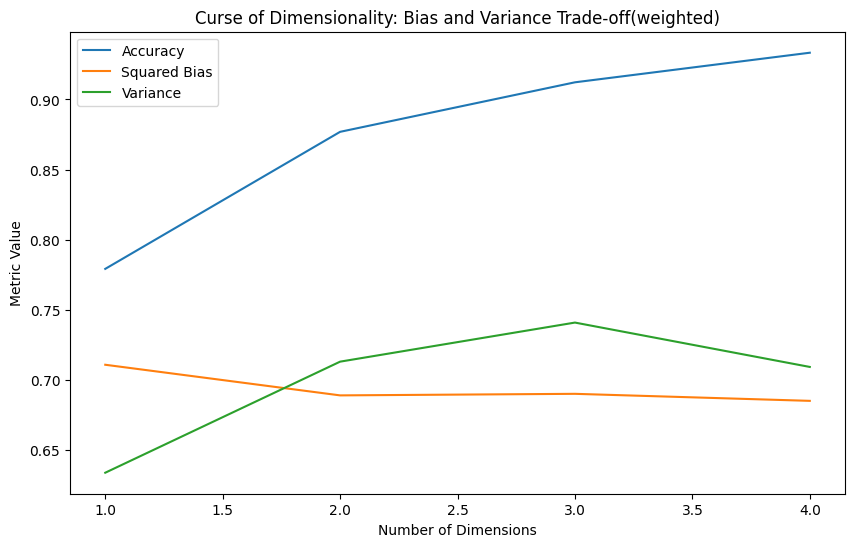
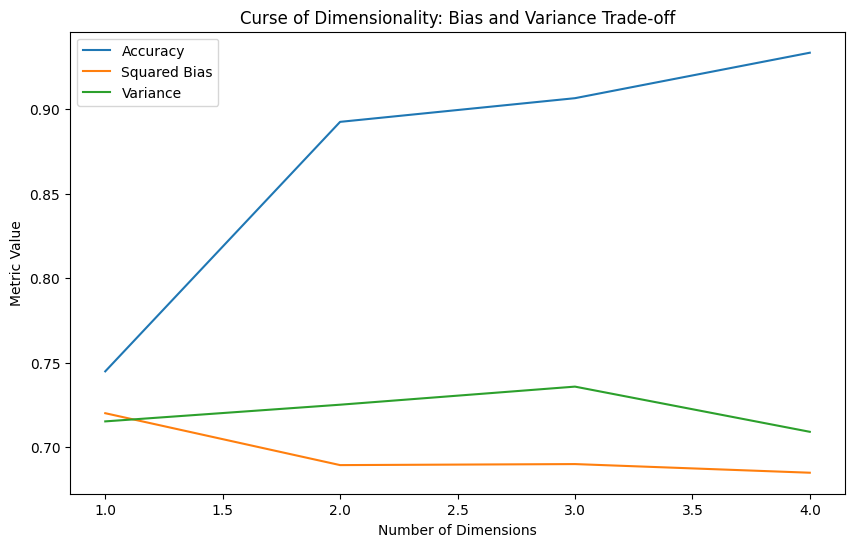
Accuracy\_weighted: 0.933

Accuracy\_normal\_noisy: 0.911

Accuracy\_weighted\_noisy: 0.889

accuracy difference normal: 4.49%

accuracy difference weighted: 4.40%

d. Experiment 4: Report the effect of curse of dimensionality in KNN\_Normal based on points (a-e) as mentioned for the problem of Experiment 4.-Abhay Sharma

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