***Báo cáo Assigment 3***

*Nhóm PM1 : Bùi Trường Vinh*

*Nguyễn Vạn Nhã*

*Trần Đức Long*

1. Feature Tiny và Classifier nearest neighboor

* Tham số :

+ dimensionSize =16 (Kích thước tiny images sau khi resize : 16 x 16)

+ k=4 (k nearest neighboor)

* Kêt quả : accuracy 20.5%

[code\results\_webpage\_tiny\_nearest\_neighboor\index.html](code/results_webpage_tiny_nearest_neighboor/index.html)

1. Feature Shift và Classifier nearest neighboor

* Tham số :

+ bin\_size = 3;

+ sigma\_smooth = 1;

+ smoothing = 1;

+ k=4 (k nearest neighboor)

+ vocab\_size=400

* Kết quả :accuracy 91.1 %

[code\results\_webpage\_Shift\_nearest\_neighboor\index.html](code/results_webpage_Shift_nearest_neighboor/index.html)

1. Feature Shift và Classifier Support Vector Machine :

* Tham số :

+ lambda=0.00001

+ bin\_size = 3;

+ sigma\_smooth = 1;

+ smoothing = 1;

* Kêt quả :accuracy 44.5 %

[code\results\_webpage\_Shift\_SVM\_0.00001\index.html](code/results_webpage_Shift_SVM_0.00001/index.html)

+ lambda=0.0001 accuracy 45.6 %

[code\results\_webpage\_shift\_SVM\_0.0001\index.html](code/results_webpage_shift_SVM_0.0001/index.html)

+lambda =0.001 accuracy 56.3 %

[code\results\_webpage\_shift\_SVM\_0.001\index.html](code/results_webpage_shift_SVM_0.001/index.html)