

MOVIE RECOMMENDATION USING POSTERS on MATLAB

TEAM AMIGOS

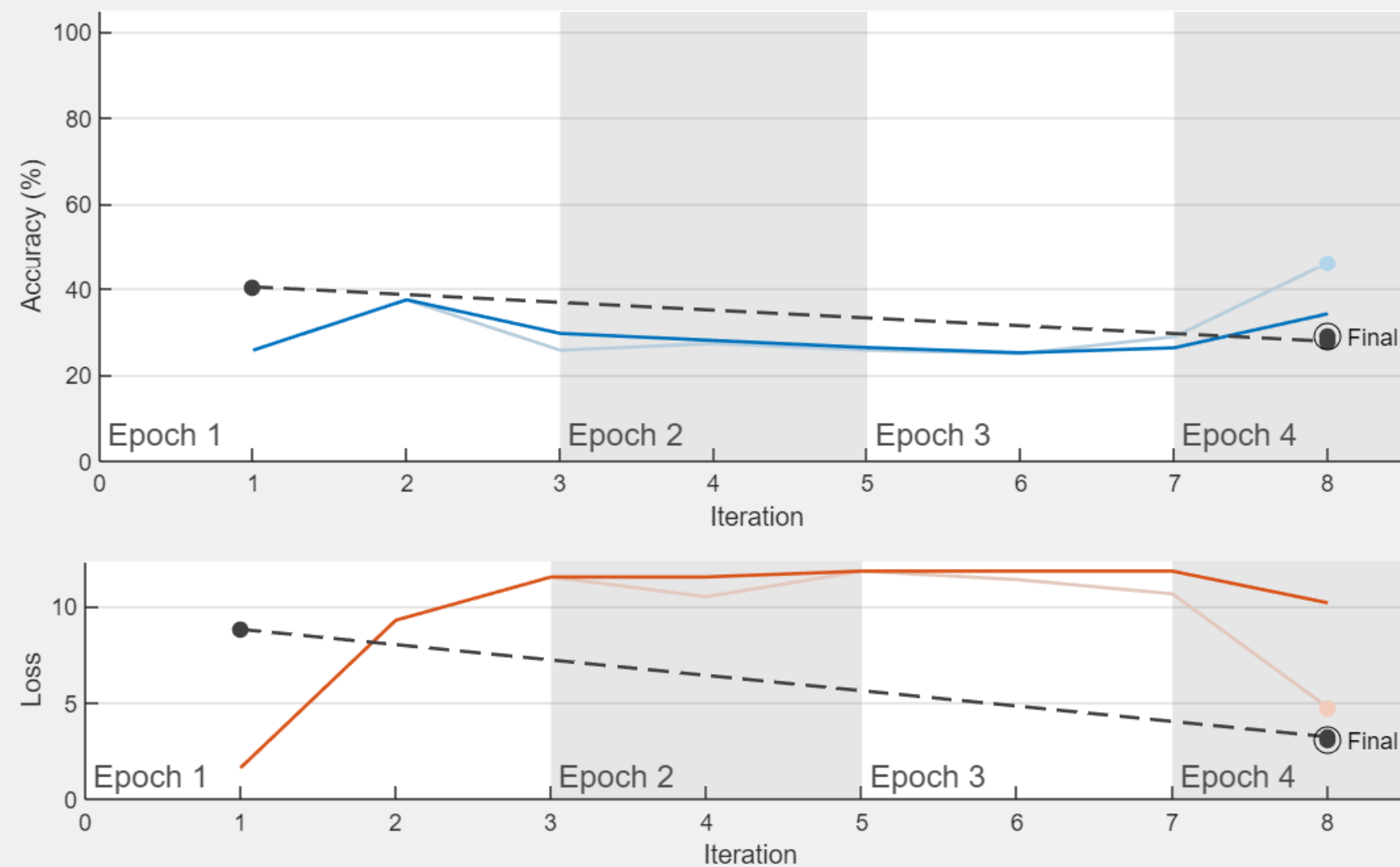


CNN

APPROACH(ResNet-50)

UNSUCCESSFUL, ACCURACY:29.11%

Training Progress (27-Nov-2022 09:31:06)



Results

Validation accuracy: 29.11%
Training finished: Max epochs completed

Training Time

Start time: 27-Nov-2022 09:31:06
Elapsed time: 1 min 21 sec

Training Cycle

Epoch: 4 of 4
Iteration: 8 of 8
Iterations per epoch: 2
Maximum iterations: 8

Validation

Frequency: 10 iterations

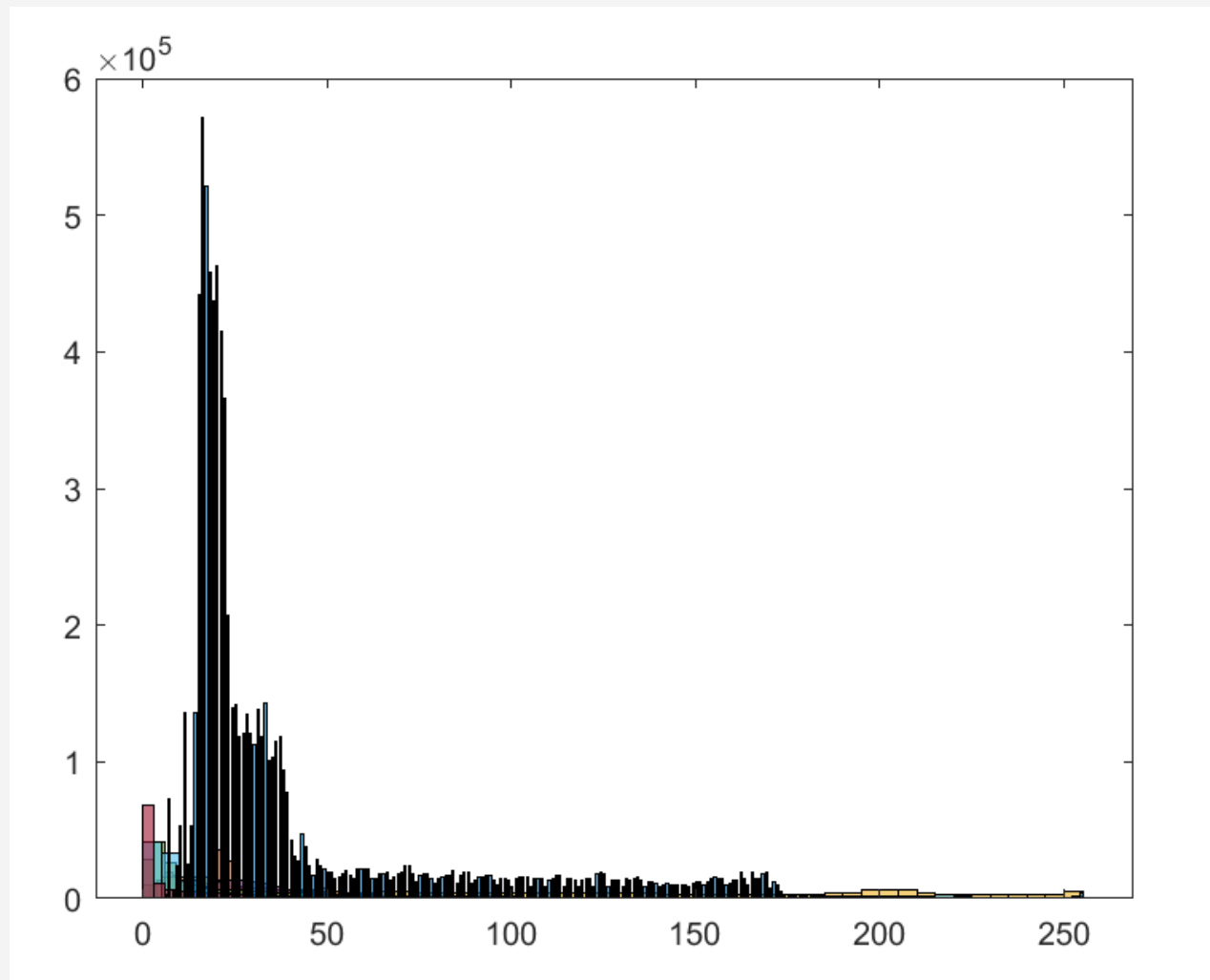
Other Information

Hardware resource: Single CPU
Learning rate schedule: Constant
Learning rate: 0.01

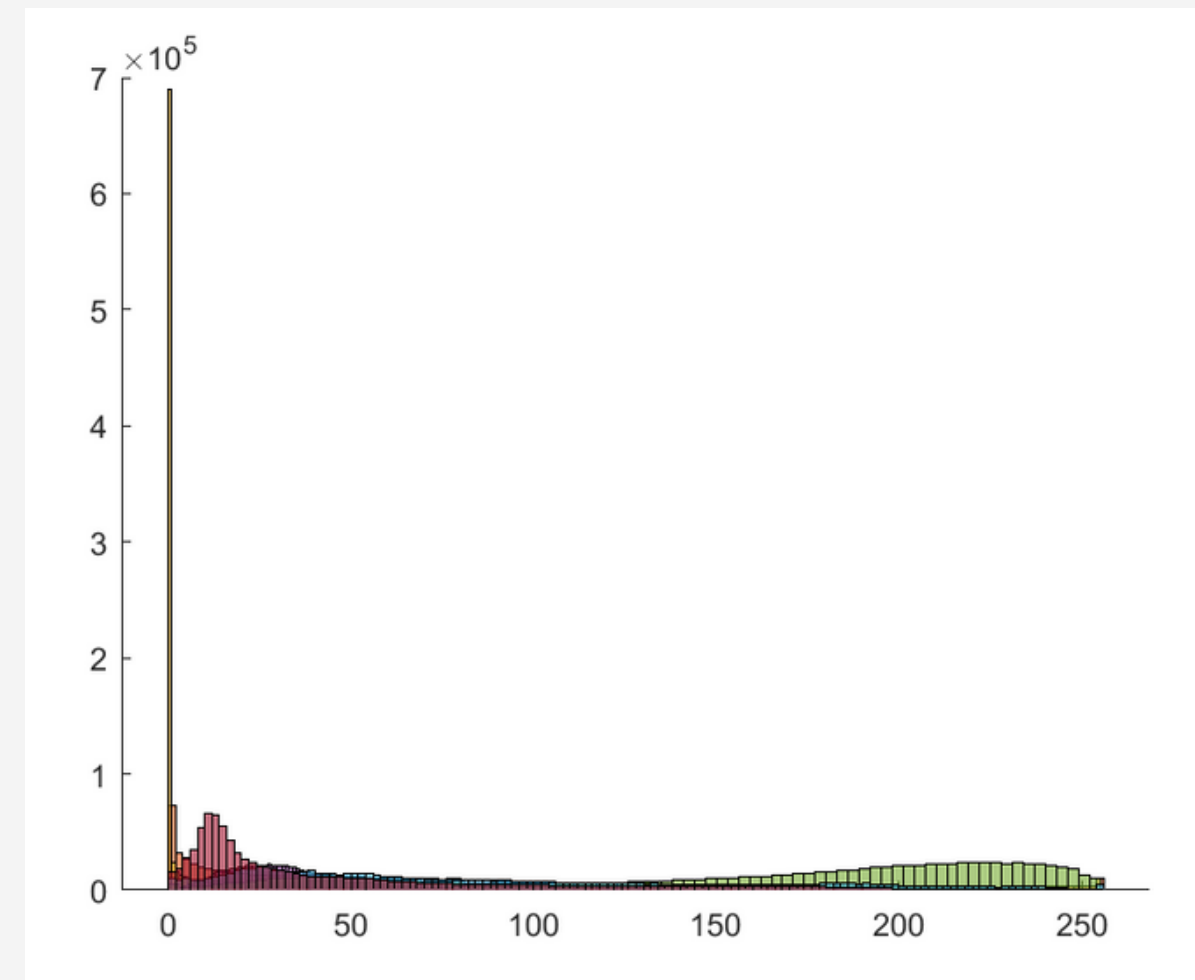
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HISTOGRAM APPROACH

UNSUCCESSFUL DUE TO SIMILARITY OF HISTOGRAMS ACROSS
GENRE



HORROR



SCI-FI

BAG OF FEATURES

Final.mlx | tbl = 4x2 table

	Label	Count
1	Animation	100
2	Comedy	100
3	Horror	99
4	Science-fict...	93

KNOWN	Anime	Comedy	PREDICTED Horror	Science_Fiction
Anime	0.66	0.23	0.05	0.06
Comedy	0.04	0.94	0.03	0.00
Horror	0.04	0.05	0.87	0.04
Science_Fiction	0.04	0.07	0.26	0.64

* Average Accuracy is 0.78.

Evaluating image category classifier for 4 categories.

* Category 1: Anime
* Category 2: Comedy
* Category 3: Horror
* Category 4: Science_Fiction

* Evaluating 79 images...done.

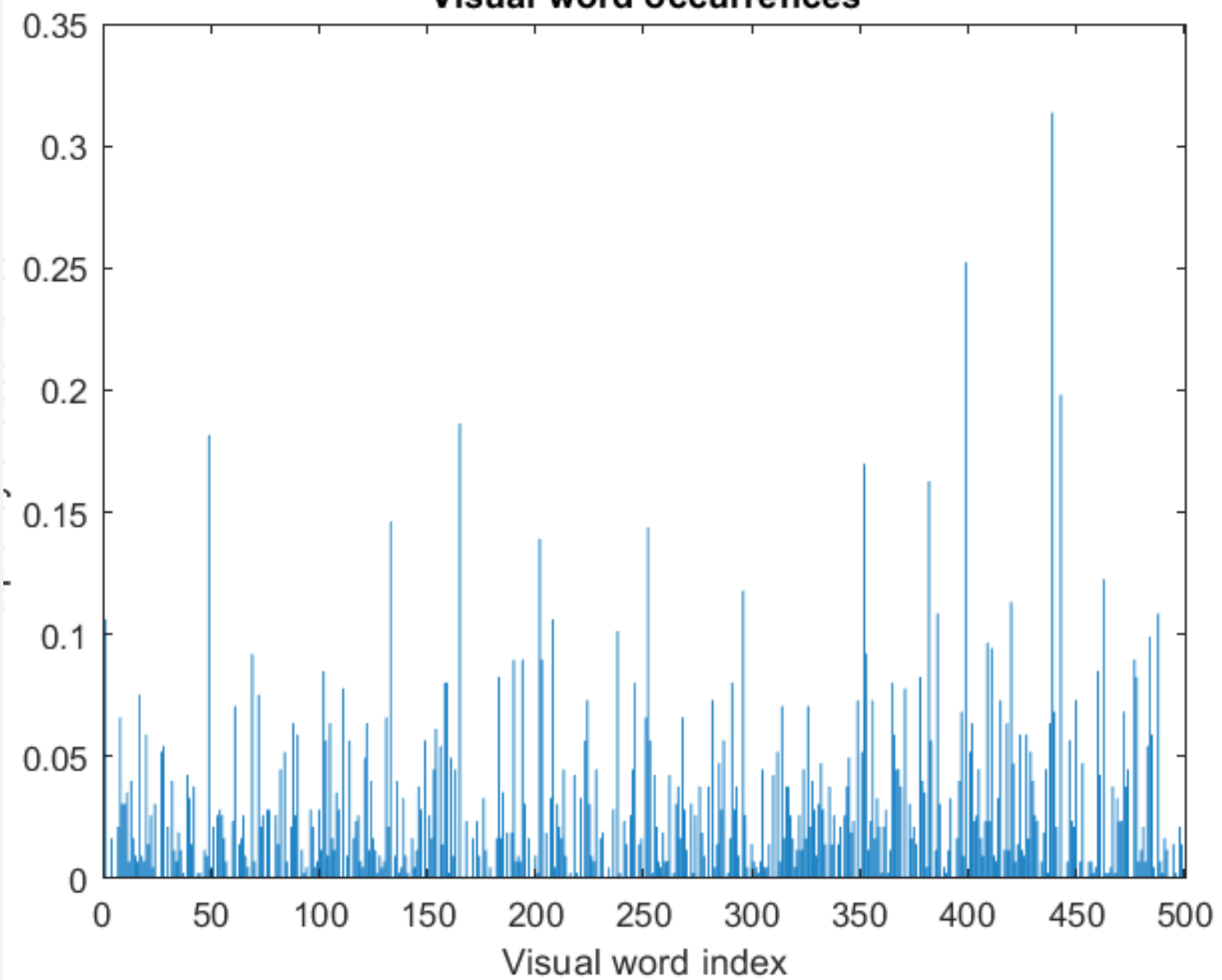
* Finished evaluating all the test sets.

* The confusion matrix for this test set is:

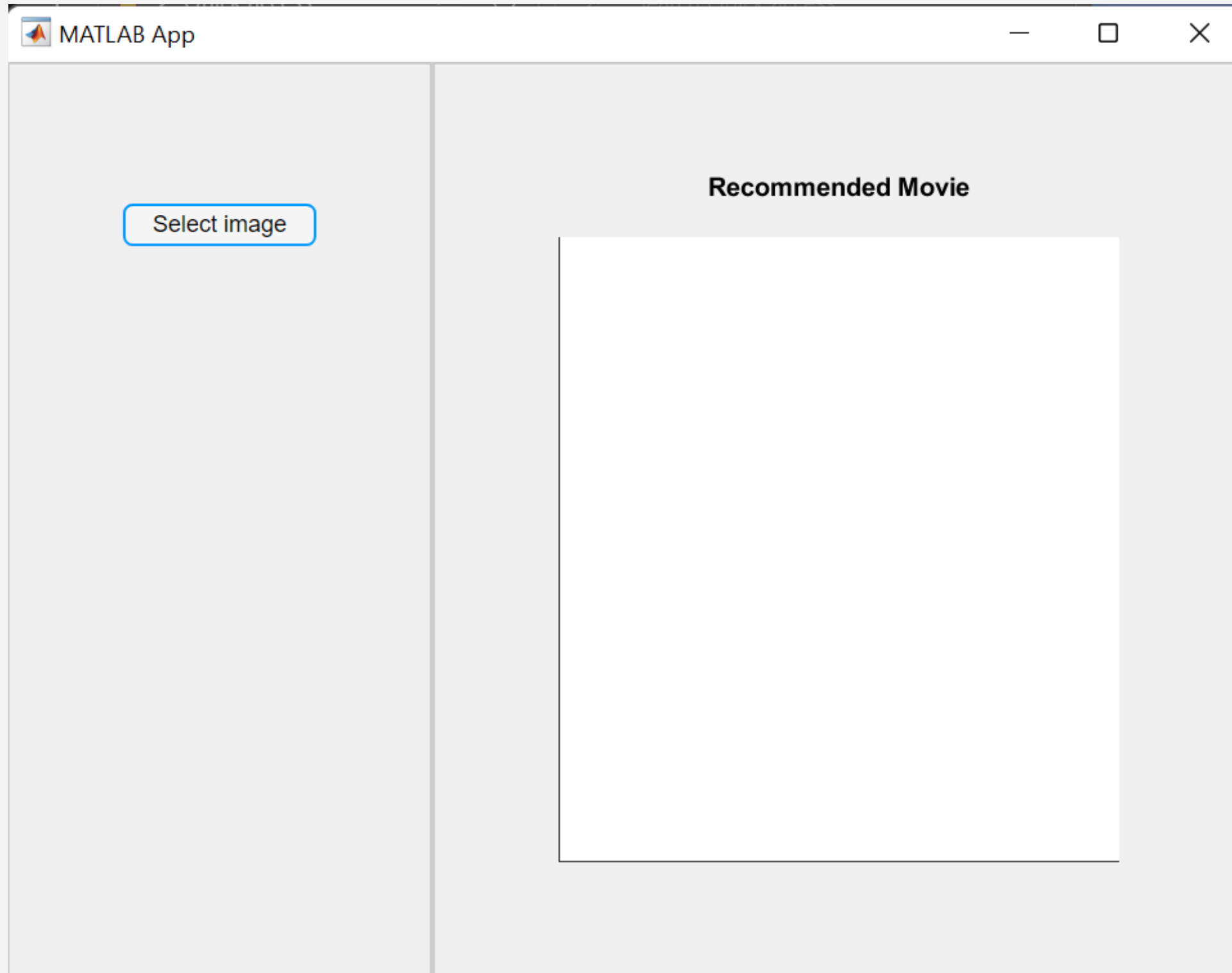
KNOWN	Anime	Comedy	PREDICTED Horror	Science_Fiction
Anime	0.30	0.45	0.05	0.20
Comedy	0.05	0.90	0.05	0.00
Horror	0.20	0.25	0.45	0.10
Science_Fiction	0.00	0.05	0.21	0.74

* Average Accuracy is 0.60.

Visual word occurrences



APP SCREENSHOT



HOW DOES OUR PRODUCT STAND OUT?

- Our approach is a poster-based search.
- Recommends all movies present ever



FUTURE SCOPE

- Collaboration with products like Google Lens.
- Partnering with OTT platforms like Netflix, Amazon Prime, Youtube, etc.



THANK YOU!

