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* CS6375.001 Machine Learning
* Machine Learning
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* [Implementaion](#) of KMeans Compression
*/

- File Name: KMeans.java
- Input to the program : <input-image absolute path> <k-value> <output-image absolute path>

Example:

C:/Users/Vidya/Desktop/Assignment3/Penguins.jpg 2

C:/Users/Vidya/Desktop/Assignment3/Penguins1.jpg

- Output : Compressed .jpg files for specified k value and k = 2,5,10,15,20
 - Average, Variance of compression Ratios

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- The input to the program includes 3 parameters sent as command line input.

The 1st : the image file that needs to be compressed

Eg. C:/Users/Vidya/Desktop/Assignment3/Penguins.jpg

The 2nd : The desired value of K

Eg. 2

The 3rd : the image file that is clustered after KMeans clustering in the specified path

Eg. C:/Users/Vidya/Desktop/Assignment3/Penguins1.jpg

- The program implements KMeans clustering for k values = 2,5,10,15,20
- The output file for each k value is present in the same path as the original input file prefixed with the k value.

Eg. Input file : Penguins.jpg

For k = 2, output : 2-Penguins.jpg

For k = 5, output : 5-Penguins.jpg

For k = 10, output : 10-Penguins.jpg

For k = 15, output : 15-Penguins.jpg

For k = 20, output : 20-Penguins.jpg

Present in the same folder as input image file.