

Silhouette scores upto 10 clusters using K-Means for socio-economic dataset

Combination-1

	Normalised Age (Yrs)	Gender (Male)	Helmet (Full-mask)	Education: Not Graduated	Education: Graduated	Income 0-40k	Income >=40k	Experience (<5yr)	Experience (5-20yr)	Experience (>20yr)
0	0.175439	1	1	1	0	1	0	0	1	0
1	0.421053	1	0	0	1	0	1	0	1	0
2	0.210526	1	1	0	1	0	1	0	1	0
3	0.491228	0	0	1	0	1	0	1	0	0
4	0.035088	1	1	1	0	1	0	1	0	0
...
476	0.210526	1	1	0	1	0	1	0	1	0
477	0.105263	1	1	0	1	0	1	1	0	0
478	0.736842	1	1	0	1	0	1	0	0	1
479	0.245614	1	1	0	1	0	1	0	1	0
480	0.245614	1	1	0	1	0	1	0	1	0

	no. of clusters	silhouette score
0	2	0.400194
1	3	0.415855
2	4	0.466373
3	5	0.508199
4	6	0.555418
5	7	0.601705
6	8	0.630319
7	9	0.650975
8	10	0.696304
9	11	0.704523
10	12	0.724525

Combination-2

	Normalised Age (Yrs)	Gender (Male)	Helmet (Full-mask)	Education: Not Graduated	Education: Graduated	Income 0-60k	Income >=60k	Experience (<5yr)	Experience (5-20yr)	Experience (>20yr)
0	0.175439	1	1	1	0	1	0	0	1	0
1	0.421053	1	0	0	1	1	0	0	1	0
2	0.210526	1	1	0	1	1	0	0	1	0
3	0.491228	0	0	1	0	1	0	1	0	0
4	0.035088	1	1	1	0	1	0	1	0	0
...
476	0.210526	1	1	0	1	1	0	0	1	0
477	0.105263	1	1	0	1	0	1	1	0	0
478	0.736842	1	1	0	1	0	1	0	0	1
479	0.245614	1	1	0	1	1	0	0	1	0
480	0.245614	1	1	0	1	1	0	0	1	0

	no. of clusters	silhouette score
0	2	0.396883
1	3	0.445392
2	4	0.500977
3	5	0.556193
4	6	0.622569
5	7	0.649896
6	8	0.679939
7	9	0.709577
8	10	0.723018

Combination-3

	Normalised Age (Yrs)	Gender (Male)	Helmet (Full-mask)	Education: Not Graduated	Education: Graduated	Income <40k	Income 40-60k	Income >60k	Experience (<5yr)	Experience (5-20yr)	Experience (>20yr)
0	0.175439	1	1	1	0	1	0	0	0	1	0
1	0.421053	1	0	0	1	0	1	0	0	1	0
2	0.210526	1	1	0	1	0	1	0	0	1	0
3	0.491228	0	0	1	0	1	0	0	1	0	0
4	0.035088	1	1	1	0	1	0	0	1	0	0
...
476	0.210526	1	1	0	1	0	1	0	0	1	0
477	0.105263	1	1	0	1	0	0	1	1	0	0
478	0.736842	1	1	0	1	0	0	1	0	0	1
479	0.245614	1	1	0	1	0	1	0	0	1	0
480	0.245614	1	1	0	1	0	1	0	0	1	0

	no. of clusters	silhouette score
0	2	0.366614
1	3	0.378495
2	4	0.411276
3	5	0.446684
4	6	0.489188
5	7	0.514773
6	8	0.555435
7	9	0.597622
8	10	0.630288

Combination-4

	Normalised Age (Yrs)	Gender (Male)	Helmet (Full-mask)	Education: Not Graduated	Education: Graduated	Income 0-40k	Income >=40k	Experience (<10yr)	Experience (>=10yr)
0	0.175439	1	1	1	0	1	0	1	0
1	0.421053	1	0	0	1	0	1	0	1
2	0.210526	1	1	0	1	0	1	1	0
3	0.491228	0	0	1	0	1	0	1	0
4	0.035088	1	1	1	0	1	0	1	0
...
476	0.210526	1	1	0	1	0	1	1	0
477	0.105263	1	1	0	1	0	1	1	0
478	0.736842	1	1	0	1	0	1	0	1
479	0.245614	1	1	0	1	0	1	0	1
480	0.245614	1	1	0	1	0	1	0	1

	no. of clusters	silhouette score
0	2	0.418130
1	3	0.451824
2	4	0.531983
3	5	0.607911
4	6	0.642668
5	7	0.684981
6	8	0.708008
7	9	0.725549
8	10	0.738330