

19-11-5

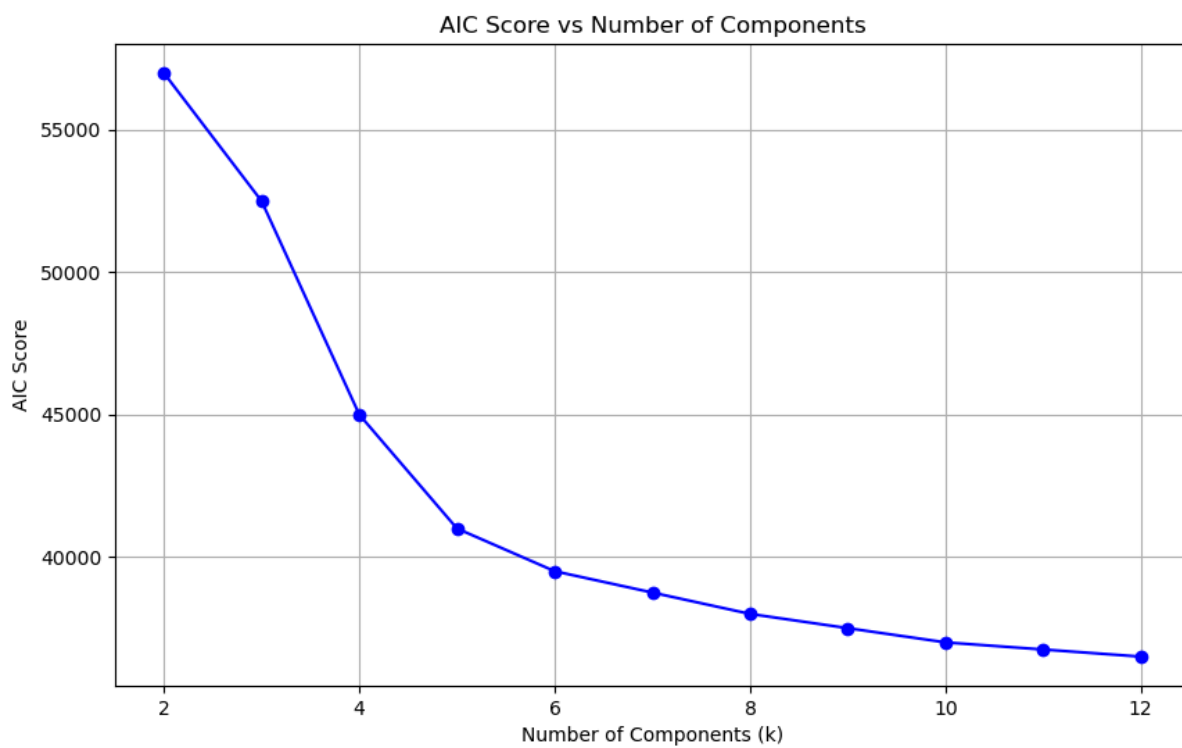
1.
$$\sqrt{(7.3 - 6)^2 + (4.3 - 3)^2 + (6 - 5)^2} = \sqrt{1.3^2 + 1.3^2 + 1} = 2.09$$

2. $x - \mu = [-1.3, -1.3, -1] \Sigma^{-1} [.435, .097, 1]$ so *dff inv diff* =

$$[-1.3 * 0.435 * -1.3, -1.3 * 0.097 * -1.3, -1.0 * 1.0 * -1.0] =$$

$$\Sigma [.74, .16, 1] = 1.9$$

then sqrt so ~1.38



3.

So 5 is the best