Stepa! create a covasiance massis

$$Cov(x,y) = \sum_{i=1}^{n} (x_i - \overline{x}) \cdot (y_i - \overline{y})$$

alculate the mars)
$$C = \begin{cases} cov(x, y), cov(x, y) \\ cov(y, n), cov(x, y) \end{cases}$$

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$$C = \begin{cases} x & y & z \\ -x & \pi x & \pi z \end{cases}$$

$$\begin{cases} x & xy & xz \\ yx & yy & yz \\ zx & zy & zz \end{cases}$$

$$\begin{cases} x & xy & xz \\ -x & xy & zz \\ zx & zy & zz \end{cases}$$

$$C = \begin{bmatrix} 0.6165 & 0.6154 \\ 0.6154 & 0.7165 \end{bmatrix}$$

on OnePlus nul B 2023.12.27<u>21:59</u> rod. of $C - \Lambda I = 0$ $\begin{bmatrix} 0.6165 & 0.6154 \\ 0.6154 & 0.7165 \end{bmatrix} - \lambda \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} = 0$, 8 6.6165-A 0.6154 7 0.6154 0.7166-1 = 0 ≥ 2 - 1.333 A + 0.0630 = 0 1 = 0,04 90 1221.2040 -> for each Eigen value we need to generate a rigon vector CV = AV $\begin{bmatrix} 0.6185 & 0.6154 \\ 0.7165 \end{bmatrix} \begin{bmatrix} 21 \\ 41 \end{bmatrix} = 0.0490 \begin{bmatrix} 21 \\ 41 \end{bmatrix}$ 0.6165 x1 + 0.6134 y1 = 0.0490 x1 0.61347, +0.71654, = 0.04907, 0.567471 = -0.6154 81 - 6 0.6184 21 =-0.667441 - 3 EgD/EgD

21

= -1·0845 YI

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By Rahul B 2023.12.27 21:59

21 = -1.004541 let put y, = 1 (tempory basis) [1] > Square them & take their root 1.17614+1 = 1 2.17614 21.47517 divide our previous value with this value $\begin{bmatrix} -1.0845 / 1.47517 \\ 1 / 1.47517 \\ 1 / 1.47517 \end{bmatrix} = \begin{bmatrix} -0.7351 \\ 0.6778 \end{bmatrix}$ 1.47517 final vector Similary put value of 12 & got the answer N2 = 0.92194 Y2 0.92191 = 0.849911 on OnePlus B 2023.12.27 21:59

21 = -1.004541 let put y, = 1 (tempory basis) [-1.0845] -> Square them & take their root 1.17614+1 = N 2.17614 21.47517 divide our previous value with this value $\begin{bmatrix} -1.0845 & /1.47517 \\ 1 & & \\ \end{bmatrix} = \begin{bmatrix} -0.7351 \\ 0.6718 \end{bmatrix}$ 1,47517 final vector Similary put value of 12 & got the answer ×2 = 0.92194 Y2 0.92194] = 0.849941 > 1.3601 0.7351

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