

JATA =
$$V \Sigma T u T u \Sigma V^T = V \begin{bmatrix} 6^3 6^2 \\ 6^2 \end{bmatrix} V^T$$

Vis the eigenvector of ATA

 G^2 , G^2 , ... is the eigenvalue of ATA

 $U S$ the eigenvector of AAT

 $ATA = \begin{bmatrix} 14 \\ -3 \end{bmatrix} \begin{bmatrix} 4 \\ 4 \end{bmatrix} = \begin{bmatrix} 2^4 \\ 7 \end{bmatrix}$
 $V = \begin{bmatrix} 5 \\ 5 \end{bmatrix}$
 $V = \begin{bmatrix}$

$$AA^{T} = \begin{bmatrix} 4 & 4 \\ 3 & 3 \end{bmatrix} \begin{bmatrix} 4 & 3 \\ 4 & 3 \end{bmatrix} = \begin{bmatrix} 32 & 0 \\ 0 & (8) \end{bmatrix}$$

$$V_{1} = \begin{bmatrix} 1 & 3 \\ 0 & 3 \end{bmatrix}$$

$$V_{2} = \begin{bmatrix} 1 & 3 \\ 0 & 4 \end{bmatrix}$$

$$V_{3} = \begin{bmatrix} 1 & 3 \\ 4 & 6 \end{bmatrix}$$

$$V_{4} = \begin{bmatrix} 4 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{2} = \sqrt{1} = \begin{bmatrix} 1 \\ 2 \\ 0 & 6 \end{bmatrix}$$

$$V_{3} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 2 & 6 \end{bmatrix}$$

$$V_{4} = \begin{bmatrix} 4 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{5} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{5} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{6} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{1} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{2} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{3} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{5} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{1} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{2} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{1} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{2} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{3} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{5} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{1} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{2} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{1} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{2} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{3} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{1} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{2} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{3} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{2} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{3} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \sqrt{1} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{4} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{5} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{5} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{5} = \begin{bmatrix} 1 & 3 \\ 0 & 6 \end{bmatrix}$$

$$V_{5} = \begin{bmatrix} 1 & 3 \\ 0 &$$

