

$$\begin{array}{c}
 XX^T = \left[\begin{array}{ccccccc}
 0 & 0 & 0 & \dots & 0 & \dots & 0 & 0 \\
 0 & 0 & 0 & \dots & 0 & \dots & 0 & 0 \\
 0 & 0 & 0 & \dots & 0 & \dots & 0 & 0 \\
 \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots \\
 \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots \\
 0 & 0 & 0 & \dots & 0 & \dots & 0 & 0
 \end{array} \right]
 \begin{array}{l}
 \rightarrow i^{th} \text{ row} \\
 \\
 \downarrow \\
 i^{th} \text{ row}
 \end{array}
 \end{array}$$