$$egin{aligned} \mathbf{x}_1 & \mathbf{w}_1 \ \mathbf{x}_2 & \mathbf{w}_2 \ & \dots & \mathbf{w}_d \end{aligned} egin{aligned} \mathbf{y} = \sum_{i=1}^d \mathbf{w}_i \mathbf{x}_i = \mathbf{x}^T \mathbf{w} \end{aligned}$$