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Chapter Q - Linear Alsebra with Num Py 2. I Data and Matrix

- Data zype I

i) Scalar ii) vector iii) matrix iv) tensor. i) Scalar DCER ii) Vector (n-diversional vector) X= X1 X= X1 XER" $X_1 = \begin{bmatrix} 5.1 \\ 3.5 \end{bmatrix}$ $X_2 = \begin{bmatrix} 4.9 \\ 3.0 \end{bmatrix}$ XOTAMA $X \in R^{5x4}$ +) tensor: Several Matrixes -Transpose! Convert you and column $X \to X^{\mathsf{T}} \quad \text{or} \quad \mathcal{X} \leftarrow X'$ TXII XIS XIS XIA7

X41 X52 X53 X54 X1 X62 X63 X64