2025-03-25 - Use NumPy and Pandas packages for matrix manipulation and data analysis

25 March 2025 11:31

-> Data Manipulation Techniques

-> NumPy ~ Numerical Python

↓

Math / Phy

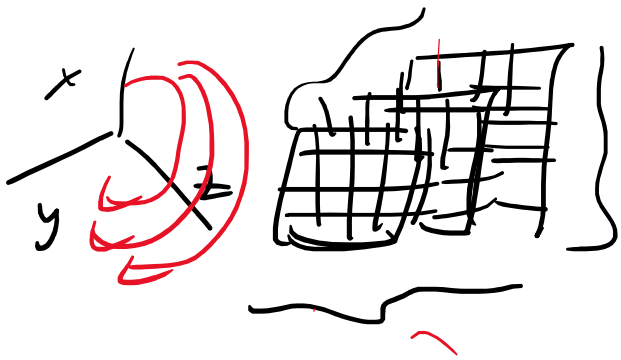
-> [.] ~ Scalar

-> [| | | | | | | | | |] ~ Vector (1-D)

[[| | | |] ~ Matrix (2-D)

[[| | | |]

[[| | | |]



~ Tensor (3-D .... nd)

Features (Property)

Features (Uniformity)

Columns / Attributes

=> (Arrays

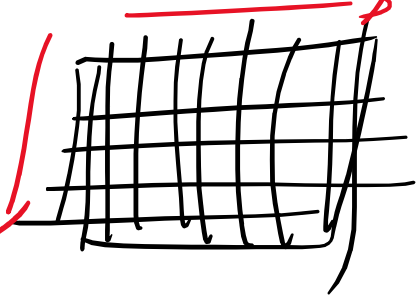
Hypothesis (Predictive Analytics)

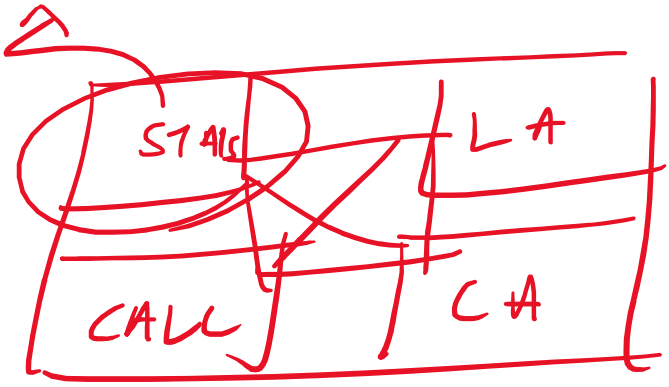
Influential / Descriptive

Rows

Tuples

Values





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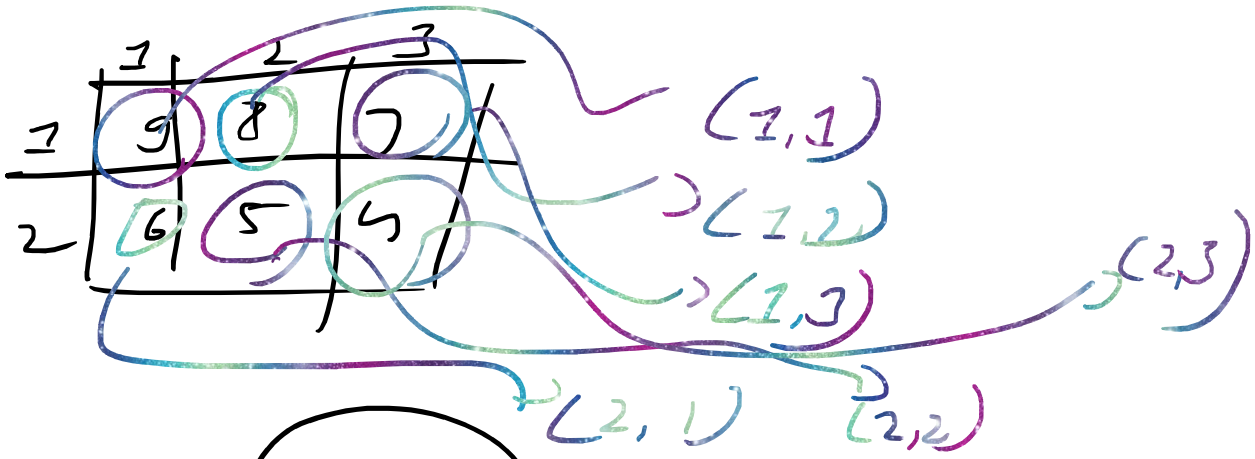

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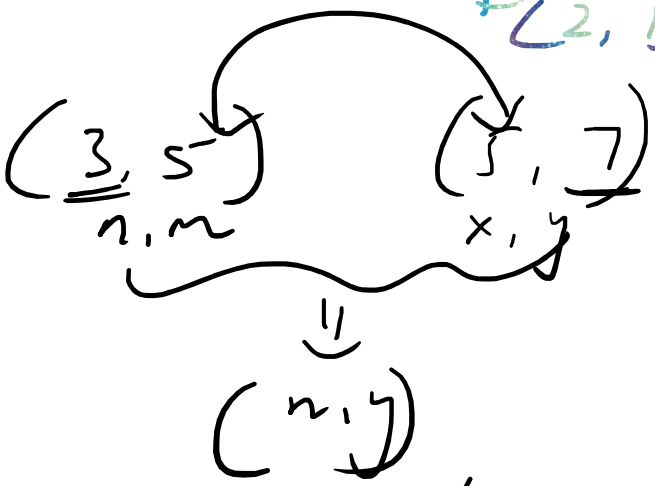
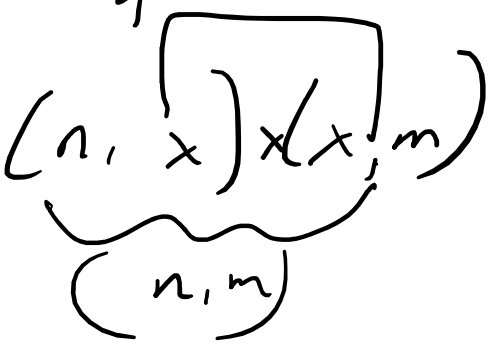


Dot Product / Matrix Multiplication

⑨ *

np.dot np.matmul



(w) x (x, y)