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Prerequisites of Data Science

Learn about the fundamental/supporting concepts in detail: statistical modelling, linear algebra, programming, rudimentary information theory etc. Highly vital material, all in one place.

Outline of Syllabus.

Deterministic, Non-deterministic and Probabilistic

Identifying noise; Cauchy-Schwartz

Outlier detection, removal

Polynomial Regression

Exact Modelling

Linear Algebra: rational foundations

T-completeness and transition functions

Abstract models: Turing, RAM, Cook-Reckhow

Diagonal argument

Encoding- Shannon-Fano, Huffman

Information Entropy

Training and evaluation

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