

What is Sequence Data?

Data points ordered by time, position, or logical sequence



Key Property: Order matters — shuffling changes meaning

Dependencies

Temporal or spatial dependencies between elements

Feature Types

Univariate (single) or multivariate (multiple features)

Length

Fixed or variable across samples

Structure

Sequential ordering preserves critical information

Examples

Stock Prices

\$100 → \$105 → \$103 → \$108 → \$110

DNA Sequences

A → T → G → C → T → A

Time series of financial data with temporal dependencies

Nucleotide order determines genetic information

Sentences



Word order conveys meaning and grammar

Video Frames



Sequential visual data capturing motion over time