

Part 1/3:

Mathematical Foundations

- 1.** Course Overview - From Sets to Regression
- 3.** Functions and Mapping Concepts
- 5.** Inner Product and Orthogonality
- 7.** Inverse Matrices and Determinants
- 9.** Differentiation and Partial Derivatives
- 2.** Set Theory Basics and Notation
- 4.** Vector Spaces and Basis
- 6.** Matrix Operations and Properties
- 8.** Eigenvalues and Eigenvectors