

## Part 2/3:

# Probability and Statistics Fundamentals

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| <b>10.</b> Probability Spaces and Random Variables        | <b>11.</b> Probability Distributions - Discrete and Continuous |
| <b>12.</b> Expectation, Variance, and Covariance          | <b>13.</b> Conditional Probability and Bayes' Theorem          |
| <b>14.</b> Central Limit Theorem and Law of Large Numbers | <b>15.</b> Parameter Estimation - MLE and MAP                  |
| <b>16.</b> Hypothesis Testing and Confidence Intervals    | <b>17.</b> Correlation vs Causation                            |