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[분야1: 확률통계 & 공학수학]

- Two-sample t-test (or Z test)

- Central limit theorem

- Maximum Likelihood Estimation (MLE)

- Poisson Process

- Convex function and Jensen's inequality

- Definition of basis and dimension in a vector space

- Definition of row and column space

- Cauchy-Schwartz inequality

- Orthogonal projection

[분야2: 프로그래밍 & 인공지능]

- Supervised and unsupervised learning

- Overfitting & Underfitting

- Training, validation, test error

- Cross-entropy loss

- Softmax function

- Cross-validation

- Recursive Function (e.g. generation of Fibonacci numbers)

- Sensitivity & specificity (or precision & recall)

- K-means clustering

- Sorting algorithm & Computational Complexity