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You have what it takes to pass

Exam P

updated 08/23/19

GENERAL PROBABILITY

Basic Probability Relationships

$\Pr(A \cup B) = \Pr(A) + \Pr(B) - \Pr(A \cap B)$

$\Pr(A \cup B \cup C)$
$= \Pr(A) + \Pr(B) + \Pr(C)$
$- \Pr(A \cap B) - \Pr(B \cap C) - \Pr(A \cap C)$
$+ \Pr(A \cap B \cap C)$

$\Pr(A') = 1 - \Pr(A)$

Law of Total Probability

$$\Pr(B) = \sum_{i=1}^{n} \Pr(B \cap A_i)$$

De Morgan's Law

$\Pr[(A \cup B)'] = \Pr(A' \cap B')$

$\Pr[(A \cap B)'] = \Pr(A' \cup B')$

Conditional Probability

$$\Pr(A|B) = \frac{\Pr(A \cap B)}{\Pr(B)}$$

Independence

$\Pr(A \cap B) = \Pr(A) \cdot \Pr(B)$

$\Pr(A|B) = \Pr(A)$

Bayes' Theorem

$$\Pr(A_i|B) = \frac{\Pr(B|A_i) \cdot \Pr(A_i)}{\sum_{i=1}^{n} \Pr(B|A_i) \cdot \Pr(A_i)}$$

Combinatorics

$n! = n \cdot (n-1) \cdot \ldots \cdot 2 \cdot 1$

${}_nP_k = \frac{n!}{(n-k)!}$

${}_nC_k = \binom{n}{k} = \frac{n!}{(n-k)! \cdot k!}$

UNIVARIATE PROBABILITY DISTRIBUTIONS

*Covers both discrete and continuous cases

Probability Mass Function (PMF)

$\sum_{all\ x} p_X(x) = 1$

$\Pr(X = a) = 0$ (continuous)

Cumulative Distribution Function (CDF)

$F_X(x) = \Pr(X \le x) = \sum_{t \le x} p_X(t)$

$\Pr(a < X \le b) = F_X(b) - F_X(a)$

$f_X(x) = \frac{d}{dx} F_X(x)$ (continuous)

Expected Value

$E[c] = c$

$E[g(X)] = \int_{-\infty}^{\infty} g(x) \cdot f_X(x)\,dx$

$E[g(X)] = \int_{0}^{\infty} g'(x) \cdot S_X(x)\,dx$, for $x \ge 0$

$E[g(X) | j \le X \le k] = \frac{\int_j^k g(x) \cdot f_X(x)\,dx}{\Pr(j \le X \le k)}$

$E[c \cdot g(X)] = c \cdot E[g(X)]$

$E[g_1(X) + \cdots + g_n(X)]$
$= E[g_1(X)] + \cdots + E[g_n(X)]$

Variance, Standard Deviation, and Coefficient of Variation

$Var[X] = E[X^2] - (E[X])^2$

$Var[aX + b] = a^2 \cdot Var[X]$

$Var[c] = 0$

$SD[X] = \sqrt{Var[X]}$

$CV[X] = SD[X]/E[X]$

Moment Generating Function (MGF)

$M_X(t) = E[e^{tX}]$

$M_{aX+b}(t) = e^{bt} \cdot M_X(at)$

$M_X(0) = 1$

$M_{X+Y}(t) = M_X(t) \cdot M_Y(t)$ (independent)

$\frac{d^n}{dt^n} M_X(t)\Big|_{t=0} = E[X^n]$

Probability Generating Function (PGF)

$P_X(t) = E[t^X]$

$P_X(0) = p_X(0)$

$\frac{\frac{d^n}{dt^n} P_X(t)\Big|_{t=0}}{n!} = p_X(n)$

$\frac{d^n}{dt^n} P_X(t)\Big|_{t=1} = E[X(X-1)\ldots(X-n+1)]$

Percentiles

The 100p^{th} percentile is the smallest value of π_p where $F_X(\pi_p) \ge p$.

Univariate Transformation

$f_Y(y) = f_X[g^{-1}(y)] \cdot \left|\frac{d}{dy} g^{-1}(y)\right|$

where $y = g(x) \Rightarrow x = g^{-1}(y)$

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KJ Lindholm-Leary

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