Logic of statistics + ALL_PYTHON_CODE

Notebook: INIAD Statistics

Created: 9/21/2018 9:30 AM **Updated:** 11/15/2018 8:12 PM

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• Logic

• Define: Not $P = \neg P$

o
$$[P \Rightarrow Q] \iff [\neg Q \Rightarrow \neg P]$$

Set

o Define

If A is a subset of B then $A \subset B$

Set of element that ∉A is A^c

■ A or B is AUB

■ A and B is A∩B

o Property

 $\blacksquare \qquad \mathsf{A} \subset \mathsf{B} <=> \; \mathsf{B}^\mathsf{C} \subset \mathsf{A}^\mathsf{C}$

 $\blacksquare (A \cup B)^{c} = A^{c} \cap B^{c}$

 $\blacksquare (A \cap B)^{C} = A^{C} \cup B^{C}$

