Basics of Statistics and Probability

W. Carrie

Statistical thinking plays a central role in data science. Data scientists use statistical thinking to design data collection, derive insights, obtain supporting evidence for making decisions, and to construct models for predicting future trends. This course provides a foundation for understanding the relationship between data and solving data problems.



	TOPICS	PRE-REQUISITES			
✓ Statistics and Probability	Basics of Statistics and Probability - Course Overview				
✓ Statistics and Data					
✓ Permutations and Combinations					
✓ Statistics - Scenarios					
✓ Probability and Essentials					
✓ Rules of Probability					
✓ Random Variables					
✓ Expected Value and Variance					
✓ Discrete Distribution					
✓ Continuous Distribution					
✓ Naive Bayes Theorem					
✓ Hypothesis Testing					
✓ General Hypothesis Testing					
✓ Chi-squared Test					
 Course Summary - Statistics and Probability 					
✓ Final Assessment - Statistics and Probability					

Statistics and Probability Katabasis



Statistical thinking plays a central role in data science. Data scientists exercise statistical thinking to design data collection, derive insights, obtain supporting evidence for making decisions, and construct models for predicting future trends. This course will provide a foundation for understanding the relationships in data and solving data problems.





Advanced Statistics and Probability

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We are advancing to the world of voice operated personal assistants and self driving vehicles! Certainly behind these newly emerging technologies are the fields of computer science where we discuss about Artificial Intelligence and Machine Learning. The concepts of Statistics and Probability are very much important when exploring these domains! Hence, we will discuss about concepts which comes from statistical background and are very useful while learning Machine Learning!

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	TOPICS	PRE-REQUISITES
✓ Multivariate Data Analysis		
✓ Multivariate Data Analysis - Methods		
 Cumulative Distribution Function 		
✓ Kernel Density Estimation		
 Prior and Posterior Probability 		
✓ Markov Process		
 Advance Statistics and Probability Summary 		
Advanced Statistics and Probability - Final Assessment		