MATHEMATICS

Data Science & AI		
Probability & Statistics		
SUBJECT	**Chapters**	
Probability and Statistics	Introduction	
Probability and Statistics	Counting techniques	
Probability and Statistics	Introduction to Probability	
Probability and Statistics	Different Approaches to Probability Theory	

Probability and Statistics	Testing of hypothesis 2	
Probability and Statistics	Laws of probability	
Probability and Statistics	BAYES THEOREM	
Probability and Statistics	Random Variables 1	
Probability and Statistics	Random Variables 2	
Probability and Statistics	Bivariate Discrete Random Variable 1	
Probability and Statistics	Bivariate Discrete Random Variable 2	
Probability and Statistics	Bivariate Discrete Random Variable 3	
Probability and Statistics	Bivariate Continous Random Variable 1	
Probability and Statistics	Bivariate Continous Random Variable 2	
Probability and Statistics	Mathematical Expectation	
Probability and Statistics	Discrete probability Distribution 1	
Probability and Statistics	Discrete probability Distribution 2	
Probability and Statistics	Continous Probability Distribution 1	
Probability and Statistics	Continous Probability Distribution 2	
Probability and Statistics	Analysis of quantitative data	
Probability and Statistics	Regression	
Probability and Statistics	Multiple correlation	
Probability and Statistics	Sampling Distribution 1	
Probability and Statistics	Sampling Distribution 2	
Probability and Statistics	Testing of hypothesis 1	

LINEAR ALGEBRA

SUBJECT	Chapters	Sub-Topics
LINEAR ALGEBRA	LINEAR ALGEBRA	Geometric Vectors
LINEAR ALGEBRA	LINEAR ALGEBRA	Linear Dependence and Independence
LINEAR ALGEBRA	LINEAR ALGEBRA	Vector Spaces Bases and Dimension
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LINEAR ALGEBRA	LINEAR ALGEBRA	Determinants and Properties
LINEAR ALGEBRA	LINEAR ALGEBRA	Matrices and their Properties

LINEAR ALGEBRA	LINEAR ALGEBRA	Matrices and their Properties
LINEAR ALGEBRA	LINEAR ALGEBRA	Matrix Transformations
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LINEAR ALGEBRA	LINEAR ALGEBRA	Quadratic Forms
LINEAR ALGEBRA	LINEAR ALGEBRA	System of Equations
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LINEAR ALGEBRA	LINEAR ALGEBRA	Guass Elimination and LU Decomopositios
LINEAR ALGEBRA	LINEAR ALGEBRA	Iterations with Matrices
LINEAR ALGEBRA	LINEAR ALGEBRA	Eigen Values and Eigenlines
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LINEAR ALGEBRA	LINEAR ALGEBRA	Eigen Values and Eigenlines
LINEAR ALGEBRA	LINEAR ALGEBRA	Singular Values Docomposition