

Data Science & Artificial Intelligence - 03 MONTHS

Category	Topic	Time
Foundations of Probability & Statistics	Central Measures	2 hours
	Measures of Spread	1 hours
	Exploring Data Using Simple Charts	2 hours
	Probability Distributions	3 hours
	Bayes Theorem	1 hour
	Central Limit Theorem	2 hours
	Hypothesis Testing	2 hours
Data science using R and Python	Data Pre-Processing	3 hours
	Data Transformation	3 hours
	Feature Engineering	3 hours
Decision Modelling	Linear Regression: Simple, Multiple, Stepaic, Multi Collinearity	4 hours
	Logistic Regression	1 hours
	Time Series Analysis	3 hours
	Naïve Bayes Classifier	2 hours
Machine Learning	Association Rules	2 hours
	Apriori and FP Tree	2 hours
	Decision Trees: C50, Rpart	3 hours
	KNN & Collaborative Filtering	2 hours
	Ensemble Methods: Random Forest, Gradient Boosting	4 hours
	Clustering	3 hours
Natural Language Processing	Vector Space Models	2 hours
	Text Data Pre-Processing and Tfidf	2 hours
	Search Engines and Page Ranking	3 hours
AI and Decision Sciences	Artificial Neural Networks	2 hours
	Deep Learning: Auto Encoders, Deep Architectures	3 hours
	Convolution Neural Networks	3 hours
	Recurrent Neural Networks: Lstm	3 hours
Optimization	Genetic Algorithms	2 hours
	Monte Carlo Simulation	2 hours
	Marcov Chain	2 hours
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Hadoop and Spark Eco system	Hadoop VM	2 hours
	HDFS	2 hours
	YARN And Map Reduce	2 hours
	Data Ingestion: Chukwa, Flume, Avro, Sqoop	2 hours
	No SQL: Big Table, Hbase	2 hours
	Spark Processing, Spark ML and Spark SQL	3 hours

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