ML_COURSE_PATH

Section 1:-

Lecture Topics	Video material	Reading Material
Core Python	Durga Sir Python or Corey Schafer	<u>Durga Sir Python Notes,</u> Python Crash Course Book
Intermediate Python	<u>Durga Sir Python</u> or <u>Corey</u> <u>Schafer</u>	<u>Durga Sir Python Notes,</u> Automation With Python Book
Advance Python	<u>Durga Sir Python</u>	
Core Software Engineering Principle	NA	Robust Python & Design Patterns

Section 2:-

Lecture Topics	Video material	Reading Material
Basic Mathematics (Optional)	Algebra 1 & Algebra 2	<u>Video Notes</u>
Linear Algebra	<u>Linear algebra by</u> <u>Antern</u>	Linear Algebra for Dummies Book
Calculus	Calculus for ML by Antern	Calculus for Dummies Book
Statistics and Probability	NA	Statistics Dummies Edition and Probability Dummies Edition

Section 3:-

Lecture Topics	Video material	Reading Material
Introduction Machine Learning	Video 1 or Video 2	Machine learning Wiki and Introduction to statistical Learning: Ch: 01 and Hands on ML with Scikit-Learn & Tensorflow: Ch: 01
Supervised Learning:- Linear Regression	Video 1 and Video 2 and Video 3	CS229 LR Notes

Beginner		
Regression Analysis and Statistics	Management - Applied Multivariate Statistical Modeling	Applied Multivariate Statistical Analysis by Johnson and Wichern
Supervised Learning:- Logistic Regression	Video 1	Introduction to statistical learning: Ch: 04 and Hands on ML book: Ch: 03 and Notes on Logistic Regression
Generalized Linear Model	Video 1	GLM's Wiki
Regularization	NA	Introduction to statistical learning: Ch: 6 & Ch: 07
Naive Bayes	<u>Video 1</u>	Naive Bayes Wiki
Support Vector Machine	Video 1 and Video 2	Introduction to statistical learning: Ch: 9
Bias-Variance Tradeoff	NA	Bias and Variance TradeOff and Empirical risk minimization and Precision-Recall Trade-Off
Feature Engineering	Feature Engineering Krish Naik Playlist	Feature Engineering for Machine Learning book
Decision Trees and Ensemble Learning	Video 1 and Video 2 and Video 3 and Video 4 and Video 6	Hands-On Ensemble Learning with Python Book
Unsupervised Learning	Video 1 and Video 2 and Video 3	Hands-On Unsupervised Learning Using Python and Introduction to statistical learning: Ch: 10

Section 4:-

Lecture Topics	Video material	Reading Material
Machine Learning Operations	NA	MadewithML, Designing Machine Learning Systems
End to End Production Grade Projects Examples	NA	<u>ZenFiles</u>
Machine Learning Interview	NA	ML Interview and Introduction to Machine Learning Interviews Book

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