

Learn Machine Learning

REFERENCE
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Python for Data Science

	Topic Name	Link
1	Intro and variables in Python	Click Here
2	Numbers in Python	Click Here
3	String in Python	Click Here
4	Conditional Statement	Click Here
5	For Loop	Click Here
6	List and Boolean Variable	Click Here
7	Tuple, Dictionary, Sets	Click Here
8	Function & Arguments	Click Here
9	Lambda Function	Click Here
10	Map function	Click Here
11	Filter function	Click Here
12	Iterables and Iterators	Click Here
13	Exception Handling	Click Here
14	Intro to OOPs	Click Here
15	OOPs Concepts	Click Here
16	List Comprehension	Click Here

Pandas

	Topic Name	Link
1	Intro to Pandas	Click Here
2	DataFrame Basics	Click Here
3	DataFrame – II	Click Here
4	Read Write a CSV or Excel file	Click Here
5	Reading CSV file	Click Here
6	Dropna, fillna, interpolate	Click Here
7	Replace function	Click Here
8	Group By	Click Here
9	Concept DataFrames	Click Here
10	Merge DataFrames	Click Here
11	Filter function	Click Here
12	Pivot Tables	Click Here
13	Exception Handling	Click Here
14	Stack and Unstack	Click Here
15	Reshape Dataframe	Click Here
*	Bonus Playlist (Videos 1-30)	Click Here

NumPy

	Topic Name	Link
1	Intro to Numpy	Click Here
2	Basic Array Operation	Click Here
3	Slicing and Indexing	Click Here
4	Inbuilt functions	Click Here
5	Numpy functions	Click Here
6	Dropna, fillna, interpolate	Click Here
7	Iterate array usind nditer	Click Here

Data Visualization

(Matplotlib & Seaborn)

	Topic Name	Link
1	Intro to Matplotlib	Click Here
2	String in plot functions	Click Here
3	Axis and Labeling	Click Here
4	Plots (Video 4-6)	Click Here
5	Matplotlib plots	Click Here
6	Dropna, fillna, interpolate	Click Here
7	Intro to Seaborn	Click Here
8	Seaborn Plots	Click Here
*	Bonus	Click Here

Statistics

	Topic Name	Link
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2	Data Types in Statistics	Click Here
3	Population and Sampling	Click Here
4	Random Variables and types	Click Here
5	Mean, Median and Mode	Click Here
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7	Standard Deviation	Click Here
8	Normal Distribution	Click Here
9	Standardization & Normalization	Click Here
10	Z-score and IQR	Click Here
11	Pearson Correlation	Click Here
12	Spearman's Rank Correlation	Click Here
13	Z-Statistics & T-Statistics	Click Here
14	Central limit theorem	Click Here
15	Probability Density Function	Click Here
16	Hypothesis testing & P-value	Click Here
17	Type 1 & Type 2 Error	Click Here
18	T-Test, Chi-Square, Anova Test	Click Here

Feature Selection & Engineering

	Topic Name	Link
1	Feature Selection – I	Click Here
2	Feature Selection – II	Click Here
3	Handling Missing Values – I	Click Here
4	Handling Missing Values – II	Click Here
*	Bonus Handling Missing Values	Click Here
5	Handling Missing Values – III	Click Here
6	One Hot Encoding	Click Here
7	Handling Categorical Features	Click Here
8	Normal Distribution	Click Here
9	Standardization & Transformation	Click Here
10	Handling Outliers – I	Click Here
11	Handling Outliers – II	Click Here
*	Bonus Handling Outliers	Click Here
12	Probability Ratio Encoding	Click Here
13	Dummy vs One Hot Encoding	Click Here

Machine Learning – I

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1	Intro to Machine Learning	Click Here
2	Linear Regression	Click Here
3	Multiple Linear Regression	Click Here
4	Ridge & Lasso Regression	Click Here
5	Multi Collinearity in LR	Click Here
6	R ² Score and Adjusted R ²	Click Here
*	Linear Regression Bonus	Click Here
7	Bias, Variance, Under & Overfitting	Click Here
8	Performance Matrix – I	Click Here
9	Performance Matrix – II	Click Here
10	Logistic Regression – I	Click Here
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12	Multiclass Logistic Regression	Click Here
*	Logistic Regression Bonus	Click Here
13	Decision Tree and Random Forest	Click Here
14	Decision Tree	Click Here
15	Entropy in Decision Tree	Click Here
16	Gini Impurity in Decision Tree	Click Here
17	Random Forest	Click Here
18	Support Vector Machine	Click Here
*	Bonus SVM	Click Here
*	Bonus Regression	Click Here
*	Bonus Classification	Click Here

Machine Learning – II

	Topic Name	Link
19	K-means – I	Click Here
20	K-means – II	Click Here
21	AdaBoost	Click Here
22	Naïve Bayes – I	Click Here
23	Naïve Bayes – II	Click Here
24	Hierarchal Clustering	Click Here
25	DBSCAN	Click Here
26	PCA	Click Here
27	XgBoost Classification	Click Here
28	Cross Validation and types	Click Here
29	Curse of Dimensionality	Click Here
*	Evaluation Matrices in ML	Click Here
*	Bonus Cross Validation	Click Here

Reference and Credit

1. [Krish Naik](#)
2. [CodeBasics](#)
3. [AnalyticsVidhya](#)
4. [Dark Coder](#)