**Online Courses**

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| **Topics** | **Online Courses** |
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| **2. Programming language** | **1.**[**Python for Everybody Specialization**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=40328&murl=https%3A%2F%2Fwww.coursera.org%2Fspecializations%2Fpython)**– University of Michigan 2.**[**Introduction To Python Programming**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=39197&murl=https%3A%2F%2Fwww.udemy.com%2Fcourse%2Fpythonforbeginnersintro%2F)**– Udemy 3.**[**Python Core and Advanced**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=39197&murl=https%3A%2F%2Fwww.udemy.com%2Fcourse%2Fpython-core-and-advanced%2F)**– Udemy 4.**[**Crash Course on Python**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=40328&murl=https%3A%2F%2Fwww.coursera.org%2Flearn%2Fpython-crash-course)**– *Google* 5.**[**Python for Absolute Beginners!**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=39197&murl=https%3A%2F%2Fwww.udemy.com%2Fcourse%2Ffree-python%2F)**– Udemy 6.**[**Introduction to Python Programming**](http://imp.i115008.net/K1vae)**– Udacity 7.**[**Python 3 Programming Specialization**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=40328&murl=https%3A%2F%2Fwww.coursera.org%2Fspecializations%2Fpython-3-programming)**– University of Michigan 8.**[**R Programming**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=40328&murl=https%3A%2F%2Fwww.coursera.org%2Flearn%2Fr-programming)**– Johns Hopkins University 9.**[**Programming for Data Science with R**](http://imp.i115008.net/e6LnO)**– *Udacity* 10.**[**R Programming A-Z™–**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=39197&murl=https%3A%2F%2Fwww.udemy.com%2Fcourse%2Fr-programming%2F)***Udemy*** |
| **3. Statistics** | **1.**[**Intro to Statistics**–](https://imp.i115008.net/xeqxx) **(Free Course) Udacity** **2.**[**Statistics with R Specialization**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=40328&murl=https%3A%2F%2Fwww.coursera.org%2Fspecializations%2Fstatistics)– **Duke University** **3.**[**Statistics with Python Specialization**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=40328&murl=https%3A%2F%2Fwww.coursera.org%2Fspecializations%2Fstatistics-with-python)– **University of Michigan** **4.**[**Intro to Inferential Statistics**](https://imp.i115008.net/NKkm6P)**– (Free Course) Udacity** **5.**[**Intro to Descriptive Statistics**](http://imp.i115008.net/3PkV0B)**– (Free Course) Udacity** **6.**[**Data Science: Statistics and Machine Learning Specialization**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=40328&murl=https%3A%2F%2Fwww.coursera.org%2Fspecializations%2Fdata-science-statistics-machine-learning)**– Johns Hopkins University** **7.**[**Basic Statistics**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=40328&murl=https%3A%2F%2Fwww.coursera.org%2Flearn%2Fbasic-statistics)– **University of Amsterdam** **8.**[**Statistical Analysis with R for Public Health Specialization**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=40328&murl=https%3A%2F%2Fwww.coursera.org%2Fspecializations%2Fstatistical-analysis-r-public-health)–**Imperial College London** **9.**[**Business Statistics and Analysis Specialization**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=40328&murl=https%3A%2F%2Fwww.coursera.org%2Fspecializations%2Fbusiness-statistics-analysis)– **Rice University** **10.**[**Statistics for Data Science and Business Analysis**](https://click.linksynergy.com/deeplink?id=Vrr1tRSwXGM&mid=39197&murl=https%3A%2F%2Fwww.udemy.com%2Fcourse%2Fstatistics-for-data-science-and-business-analysis%2F)– **Udemy** **11.**[**Intro to Statistics–**](https://imp.i115008.net/xeqxx)**Udacity** |
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**Tutorials**

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| **2. Statistics** | **1.**[**Statistics and probability**](https://www.khanacademy.org/math/statistics-probability)**– Khan Academy** **2.**[**Statistics – Probability**](https://www.tutorialspoint.com/statistics/probability.htm) **(TutorialsPoint)** **3.**[**Probability and Statistics**](https://www.mathsisfun.com/data/)**(MathisFun)** **4.**[**Statistics Tutorial-**](https://www.tutorialspoint.com/statistics/index.htm) **TutorialsPoint** **5.**[**STATISTICS TUTORIALS: BEGINNER TO ADVANCED**](https://www.listendata.com/p/statistics-tutorials.html)**– Listen Data** |
| **3. Mathematics** | **1.**[**Probability**](https://www.khanacademy.org/math/statistics-probability/probability-library) **on Khan Academy** **2.**[**Probability Tutorial**](https://stattrek.com/tutorials/probability-tutorial.aspx)**(Stat Trek)** **3.**[**Probability theory**](https://en.wikipedia.org/wiki/Probability_theory)**(Wikipedia)** **4.**[**Introduction to Calculus**](https://www.mathsisfun.com/calculus/introduction.html) **(MathisFun)** **5.**[**Calculus 1**](https://www.khanacademy.org/math/calculus-1) **on Khan Academy** |
| **4. Data Wrangling** | **1.**[**Python – Data Wrangling**](https://www.tutorialspoint.com/python_data_science/python_data_wrangling.htm)**– TutorialsPoint** **2.**[**Python Data Wrangling Guide-**](https://www.nobledesktop.com/learn/python/data-wrangling-python-guide)**Noble Desktop** **3.**[**Python Data Wrangling Tutorial: Cryptocurrency Edition**](https://elitedatascience.com/python-data-wrangling-tutorial)– **Elite Data Science** **4.** [**Data Wrangling with pandas Cheat Sheet**](https://pandas.pydata.org/Pandas_Cheat_Sheet.pdf) |
| **5. Data Visualization** | **1.**[**Tableau Tutorial**–](https://www.javatpoint.com/what-is-data-visualization) **JavatPoint** **2.**[**Data Visualization**](https://www.tutorialspoint.com/business_writing_skills/data_visualization.htm)– **TutorialsPoint** **3.**[**Tableau Tutorial**](https://www.tableau.com/learn/training/20203)**– Tableau.com** **4.**[**Data Visualisation with Tableau**](https://datacamp.pxf.io/0Jd4gO)– **DataCamp** |
| **6. Machine Learning** | **1.**[**Machine Learning with Python Tutorial-**](https://www.tutorialspoint.com/machine_learning_with_python/index.htm)**Tutorials Point** **2.**[**Machine Learning Basics**](https://www.mltut.com/machine-learning/)**– MLTUT** **3.**[**Machine Learning Tutorial-**](https://www.javatpoint.com/machine-learning)**Javatpoint** **4.**[**Machine Learning**](https://www.geeksforgeeks.org/machine-learning/)– **GeeksforGeeks** |

**YouTube Videos**

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| **Topics** | **YouTube Videos** |
| **1. Programming Language** | **1.**[**CS DOJO**](https://www.youtube.com/channel/UCxX9wt5FWQUAAz4UrysqK9A) **2.**[**Programming with Mosh**](https://www.youtube.com/watch?v=_uQrJ0TkZlc&t=17s) **3. [Telusko](https://youtu.be/QXeEoD0pB3E)** **4.**[**Clever Programmer**](https://www.youtube.com/c/CleverProgrammer/playlists) **5.**[**Corey Schafer**](https://youtu.be/YYXdXT2l-Gg) **6.**[**R Programming Tutorial**](https://youtu.be/_V8eKsto3Ug)– **freeCodeCamp.org** **7.**[**R Programming Full Course**](https://youtu.be/KlsYCECWEWE)– **Simplilearn** |
| **2. Statistics** | **1.**[**Statistics for Data Science**](https://youtu.be/Vfo5le26IhY)– **Great Learning** **2.**[**Statistics – A Full University Course on Data Science Basics**](https://youtu.be/xxpc-HPKN28)–**freeCodeCamp.org** **3.**[**Statistics for Data Science Course**](https://youtu.be/H52cgidTwXE)**– Intellipaat** **4.**[**Statistics Course for Data Science | Statistics Course**](https://www.youtube.com/playlist?list=PLqzoL9-eJTNBZDG8jaNuhap1C9q6VHyVa)– **MarinStatsLectures-R Programming & Statistics** |
| **3. Mathematics** | **2.**[**Mathematics for Machine Learning [Full Course]**](https://youtu.be/1VSZtNYMntM)– **Edureka** **3.**[**Mathematics For Machine Learning-**](https://youtu.be/iyxqcS1u5go) **Simplilearn** **4.**[**Mathematics for Machine Learning**](https://youtu.be/tVQZvJwi-ec)– **My CS** |
| **4. Data Wrangling** | **1.**[**Machine Learning Data Pre-processing & Data Wrangling using Python**](https://www.youtube.com/watch?v=ErjU5vshAms&list=PLlH6o4fAIji5W4c1aEzT-zcG_IUjJXa4e)– **The AI University** **2.**[**Data Wrangling: dplyr**](https://youtu.be/MtiLTLr8hew)– **OHI-Science** |
| **5. Data Visualization** | **1.**[**Data Visualization with D3.js – Full Tutorial Course-**](https://youtu.be/_8V5o2UHG0E) **freeCodeCamp.org** **2.** [**Data Visualization Tutorial For Beginners-**](https://youtu.be/MiiANxRHSv4) **Simplilearn** **3.**[**Data Visualization Tutorial**](https://www.youtube.com/playlist?list=PLZoTAELRMXVPl9iur3fIM48BI-f4og9fb)– **by Krish Naik** **4.**[**Intro to Data Visualization with R & ggplot2**](https://youtu.be/49fADBfcDD4)– **Data Science Dojo** **5.**[**Seaborn python tutorial | Data Visualization Using Python Seaborn**](https://youtu.be/6VngZzL34X0)**– Great Learning** **6.**[**Tableau Full Course**](https://youtu.be/aHaOIvR00So)– **Edureka** **7.**[**Power BI Tutorial From Beginner to Pro**](https://youtu.be/AGrl-H87pRU)– **Avi Singh – PowerBIPro** |
| **6. Machine Learning** | **1.**[**Machine Learning with Python**](https://youtu.be/RnFGwxJwx-0)– **Great Learning** **2.**[**Machine Learning Tutorial Python**](https://youtu.be/gmvvaobm7eQ)– **codebasics** **3.**[**Python Machine Learning Tutorial-**](https://youtu.be/7eh4d6sabA0)**Programming with Mosh** **4.**[**Machine Learning**](https://www.youtube.com/playlist?list=PLZoTAELRMXVPBTrWtJkn3wWQxZkmTXGwe)**by Krish Naik** |