



**Women in  
Data Science  
Worldwide**

Trinidad & Tobago

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## Data Science Resources

*Here is a list of resources for data science enthusiasts of all levels.*

| Resource   | Link  | Overview   |
|--|---|--|
| <b>Courses</b>   |   |  |
| <b>Foundational Courses</b>  |   |  |
| 1 Coursera - Data Science Specialization by Johns Hopkins University | <a href="https://www.coursera.org/specializations/jhu-data-science">https://www.coursera.org/specializations/jhu-data-science</a> | Covers the basics of data science, including R programming, statistical inference, and data visualization. |

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| 2 Coursera - Python for Data Science and Machine Learning Bootcamp by Udemy | <a href="https://www.udemy.com/course/python-for-data-science-and-machine-learning-bootcamp/">https://www.udemy.com/course/python-for-data-science-and-machine-learning-bootcamp/</a> | Focuses on Python programming, which is essential for data science, and introduces machine learning concepts.     |
| 3 edX - Data Science MicroMasters by UC San Diego                           | <a href="https://www.edx.org/micromasters/uc-san-diegox-data-science">https://www.edx.org/micromasters/uc-san-diegox-data-science</a>   | A more in-depth program covering probability, statistics, machine learning, and big data.                         |
| <b>Statistics &amp; Probability Courses</b>                                 |   |   |
| 4 Khan Academy - Probability and Statistics                                 | <a href="https://www.khanacademy.org/math/statistics-probability">https://www.khanacademy.org/math/statistics-probability</a>   | A free resource that covers essential statistics and probability topics.  |
| 5 Coursera - Statistical Inference by Johns Hopkins University              | <a href="https://www.coursera.org/learn/statistical-inference">https://www.coursera.org/learn/statistical-inference</a>   | Delves into statistical concepts, hypothesis testing, and the application of statistical methods in data science. |
| <b>Machine Learning &amp; AI Courses</b>                                    |   |   |
| 6 Coursera - Machine Learning by Stanford University Andrew Ng              | <a href="https://www.coursera.org/learn/machine-learning">https://www.coursera.org/learn/machine-learning</a>   | A comprehensive introduction to machine learning, covering various algorithms and their applications.             |
| 7 Fast.ai - Practical Deep Learning for Coders                              | <a href="https://course.fast.ai/">https://course.fast.ai/</a>   | A practical, code-focused course on deep learning   |

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|   |   | using Python and the PyTorch library.  |
| <b>Data Visualization Courses</b>                               |   |  |
| 8 Coursera - Data Visualization with Tableau by UC Davis        | <a href="https://www.coursera.org/specializations/data-visualization">https://www.coursera.org/specializations/data-visualization</a>   | Teaches data visualization techniques using Tableau, a leading tool in the field.      |
| 9 Udacity - Data Visualization in Python                        | <a href="https://www.udacity.com/course/data-visualization-in-python--nd002">https://www.udacity.com/course/data-visualization-in-python--nd002</a>                           | Focuses on creating visualizations using Python libraries like Matplotlib and Seaborn. |
| <b>Tools and Technologies Courses</b>                           |   |  |
| 10 Coursera - Data Science and Machine Learning Bootcamp with R | <a href="https://www.udemy.com/course/data-science-and-machine-learning-bootcamp-with-r/">https://www.udemy.com/course/data-science-and-machine-learning-bootcamp-with-r/</a> | Covers data science tools like R, SQL, and Git, with practical applications.           |
| <b>Books</b>  |   |  |
| 1 "Python for Data Analysis" by Wes McKinney.                   | <a href="https://wesmckinney.com/book/">https://wesmckinney.com/book/</a>   | For learning data manipulation with Python, particularly with Pandas.                  |

# Youtube

## 1. General Data Science & Machine Learning

StatQuest with Josh Starmer

<https://www.youtube.com/c/joshstarmer>

Josh Starmer breaks down complex statistical concepts and machine learning algorithms into simple, understandable videos.

## 2. Python for Data Science

Sentdex

<https://www.youtube.com/c/sentdex>

This channel covers a wide range of Python-related topics, including data science, machine learning, and deep learning. The tutorials are project-based.

Data School

<https://www.youtube.com/c/dataschool>

Data School focuses on teaching data science with Python, particularly using libraries like Pandas and scikit-learn. The videos are beginner-friendly and very detailed.

## 3. Machine Learning & AI

DeepLizard

<https://www.youtube.com/c/DeepLizard>

DeepLizard focuses on deep learning, artificial intelligence, and neural networks, primarily using Python and TensorFlow. The channel also explores theoretical concepts with practical coding examples.

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| 4. Data Visualization                |   |   |
| Charming Data                        | <a href="https://www.youtube.com/c/CharmingData">https://www.youtube.com/c/CharmingData</a>   | Charming Data offers tutorials on creating interactive visualizations using Plotly Dash, which is a powerful tool for building web-based dashboards in Python.        |
| Data Professor                       | <a href="https://www.youtube.com/c/DataProfessor">https://www.youtube.com/c/DataProfessor</a> | This channel covers various aspects of data science, including data visualization with Python and R. It also offers tutorials on machine learning and data analytics. |
| 5. Engineering-Specific Applications |   |   |
| MATLAB                               | <a href="https://www.youtube.com/c/MATLAB">https://www.youtube.com/c/MATLAB</a>               | The official MATLAB YouTube channel provides tutorials on using MATLAB for data analysis, machine learning, and other engineering applications.                       |
| Tech With Tim                        | <a href="https://www.youtube.com/c/TechWithTim">https://www.youtube.com/c/TechWithTim</a>     | Although not exclusively focused on data science, Tech With Tim has tutorials on Python programming and machine learning.   |
| 6. Data Science & Career Development |   |   |
| Ken Jee                              | <a href="https://www.youtube.com/c/KenJee1">https://www.youtube.com/c/KenJee1</a>             | Ken Jee's channel is a mix of data science tutorials, career advice, and project-based learning. He offers valuable   |

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|   |   | insights for those looking to transition into or advance in data science careers. |
| <b>R Resources</b>                      |   |   |
| Introduction to R for Data Science      | <a href="https://r4ds.had.co.nz/explore-intro.html">https://r4ds.had.co.nz/explore-intro.html</a>   | An introduction to R programming and data science concepts.                       |
| R Scripts Tips for Using R              | <a href="https://scc.ms.unimelb.edu.au/resources/tips-for-using-r/r-scripts">https://scc.ms.unimelb.edu.au/resources/tips-for-using-r/r-scripts</a>   | A collection of tips and scripts for using R effectively.                         |
| Saving Plots in R                       | <a href="https://www.datamentor.io/r-programming/saving-plot">https://www.datamentor.io/r-programming/saving-plot</a>   | Guides on how to save plots created in R.   |
| Clean It Up Course                      | <a href="https://rladiessydney.org/courses/ryouwithme/02-cleanitup-5/">https://rladiessydney.org/courses/ryouwithme/02-cleanitup-5/</a>   | A course focused on cleaning data in R.   |
| Tidyr: Pivot Tables                     | <a href="https://tidyr.tidyverse.org/articles/pivot.html">https://tidyr.tidyverse.org/articles/pivot.html</a>   | An article on creating pivot tables using the Tidyr package in R                  |
| R Cheat Sheet for Lubridate             | <a href="https://rawgit.com/rstudio/cheatsheets/master/lubridate.pdf">https://rawgit.com/rstudio/cheatsheets/master/lubridate.pdf</a>   | A cheat sheet for using the Lubridate package in R for date-time manipulation.    |
| <b>Miscellaneous</b>                    |   |   |
| MATLAB & Python Integration [MathWorks] | <a href="https://www.mathworks.com/products/matlab/getting-started/using-matlab-python.html#python-users?s_eid=psm_ml&amp;source=15308">https://www.mathworks.com/products/matlab/getting-started/using-matlab-python.html#python-users?s_eid=psm_ml&amp;source=15308</a> | Information on using MATLAB with Python for data science applications.            |

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| Data Asset Exchange (DAX)  | <a href="https://developer.ibm.com/exchanges/data/">https://developer.ibm.com/exchanges/data/</a>  | An online hub for developers and data scientists to find free and open datasets.   |
| Model Asset Exchange (MAX) | <a href="https://developer.ibm.com">https://developer.ibm.com</a><br>OR<br><a href="https://dataplatform.cloud.ibm.com/analytics/notebooks/v2/00016ebe-ffa2-48f7-ab72-a31c5c4caf55/view?access_token=0410fb820dc62f1a404aca23ed6558618bef76c810e9243dae1b23ae74824eac">https://dataplatform.cloud.ibm.com/analytics/notebooks/v2/00016ebe-ffa2-48f7-ab72-a31c5c4caf55/view?access_token=0410fb820dc62f1a404aca23ed6558618bef76c810e9243dae1b23ae74824eac</a> | A platform for free open-source deep learning models for various applications for text, image, audio and video processing etc. |