**Resources for Data Science and AI**

# University courses

* [**Bachelor of Science (Data Science)**](https://study.unimelb.edu.au/find/courses/major/data-science/)– University of Melbourne (3-year degree)
* [**Masters of Data Science**](https://sydney.edu.au/courses/courses/pc/master-of-data-science.html)– University of Sydney (1-year full-time, 2-year part-time)
* [UNSW Master of Data Science](https://unswonline.com.au/ppc/datascience?utm_campaign=Footprint-Search-MDS-BM-Course&utm_source=Google&utm_medium=ppc&utm_term=%2Bdata%20%2Bscience%20%2Bcourse&LeadChannel=PPC&LeadSource=Google&VendorAccountCampaignType=Search&Keyword=%2Bdata%20%2Bscience%20%2Bcourse&CampaignSourceCode=Footprint-Search-MDS-BM-Course&VendorId=7&gclid=CjwKCAjwzPXlBRAjEiwAj_XTEUyVcRMdu-RmN51egshgO_Eo-h_SJZcH_5c3qm_SXLT-vCJMoPLsYxoC5iQQAvD_BwE) (online)
  + Nested qualifications: can be done progressively via Graduate Certificate (4 courses), Graduate Diploma (+4 Courses, $16,500) or Masters (+4 courses)
  + Each course is seven weeks long. UNSW Online advises a minimum of 15-20 hours of study per week. The program can be completed in as little as two years.

# Short courses

* [Data Science Institute of Australia](https://www.dsia.org.au/) (3-month full time of 6-month part-time courses)

# Online courses

* [Coursera Data Science Courses](https://www.coursera.org/browse/data-science) – Many courses that range from Nano degrees to Master’s degrees offered by a number of universities and vendors.
* [EDX Data Analysis & Statistics Courses](about:blank)
* [Udacity](about:blank)

# Podcasts

Search for these podcasts on your favourite podcast player:

* DataFramed
* Data Skeptic
* Talking Machines
* O’Reilly Data Show
* Data Stories
* SuperDataScience

# Blogs/ websites/ articles

* Towards Data Science
  + <https://towardsdatascience.com/>
* FiveThirtyEight
  + <https://fivethirtyeight.com/>
* No Free Hunch
  + <http://blog.kaggle.com/>
* Simply Statistics
  + <https://simplystatistics.org/>
* Data Science 101
  + <https://101.datascience.community/>
* Dataquest.io Blog
  + https://www.dataquest.io/blog/
* Strategies for learning and advancing skills in Data Science and AI - Learning how to learn better
  + <https://www.linkedin.com/pulse/strategies-learning-advancing-skills-data-science-ai-ahmed-fattah/>
* [10 of the best data science blogs to follow](https://www.tableau.com/learn/articles/data-science-blogs)
* [Data Science In 5 Minutes | Data Science For Beginners | What Is Data Science? | Simplilearn](https://www.youtube.com/watch?v=X3paOmcrTjQ)

# YouTube videos and channels

* [How to Build a Compelling Data Science Portfolio & Resume](https://www.youtube.com/watch?v=xrhPjE7wHas)
* [Learn Python Basics for Data Science from IBM](https://www.youtube.com/watch?v=JC3urnvKanI&list=PL2fCZiDqOYYWvJSoIV9J3n-hlZIEoKEdu)
* StatQuest
* Open Data Science
* Kevin Markham Data School
* 3 blue and 1 brown

# Books

* An Introduction to Statistical Learning: (free pdf):
  + <http://www-bcf.usc.edu/~gareth/ISL/>
* Python for Data Analysis
* Python for Everybody
  + <https://www.py4e.com/book>
* AI, A Modern Approach (free pdf)
  + <http://aima.cs.berkeley.edu/>
* The Master Algorithm by Pedro Domingo