

# FREE LEARNING RESOURCES

*Because learning never stops....*

## KEYS

## COURSE PLATFORMS

## BLOG PLATFORMS

## MULTIPURPOSE PLATFORM

### 1. KAGGLE

Biggest competition and learning platform for Data Scientists globally. Learn from their micro courses, participate in competitions (which can earn you money) and use their datasets to experiment on models.

- Requirements: Sign up with an email address
- Homepage [Kaggle: Your Machine Learning and Data Science Community](#)

### 2. ZINDI

Think of it like Africa's Kaggle. Another useful data science community with content curated for Africans by Africans. Their focus is more on competitions, which are still a great way to learn by actively solving ML/DL problems.

- Requirements: Sign up with an email address
- Homepage [Zindi](#)

### 3. ELEMENTS OF AI

Two courses that can help build your knowledge about AI. The content is simple to understand and relatively easy to follow.

- Requirements: Sign up with an email address
- Introduction to AI <https://course.elementsofai.com/>
- Building AI [Course Overview - Building AI \(elementsofai.com\)](#)

### 4. MIT OPENCOURSEWARE

Find content about any subject you want, for example intro to deep learning. You can go through slides or YouTube videos.

- Introduction to Deep learning [MIT Deep Learning 6.S191 \(introtodeeplearning.com\)](#)
- YouTube playlist [MIT 6.S191: Introduction to Deep Learning - YouTube](#)
- Official MIT homepage [MIT OpenCourseWare | Free Online Course Materials](#)

## 5. MACHINE LEARNING MASTERY

A website consisting of tutorials, e-books and guides about the latest technologies in ML and Deep Learning. It also has simplified explanations about various models that exist.

- Requirements: Sign up with an email to get updates
  - Homepage [Machine Learning Mastery](#)

## 6. FLOYDHUB BLOG

A collection of blogs about trends in Data Science and AI. As well as detailed explanations on some topics

- [FloydHub Blog](#)

## 7. ANALYTICS VIDHYA

Within the free courses page, you can find as many ML related introductions as is possible. Get to improve your knowledge base using technical terms in each field. There is also a blog page where you can read about trends within the industry.

- Requirement: Sign up with an email address
  - Time series forecasting [Creating Time Series Forecast using Python \(analyticsvidhya.com\)](#)
  - Intro to NLP [Introduction to NLP - Free Course \(analyticsvidhya.com\)](#)
  - Regression analysis [Fundamentals of Regression Analysis- Free Course \(analyticsvidhya.com\)](#)
  - Evaluation metrics [Evaluation Metrics for Machine Learning Models- Free Course \(analyticsvidhya.com\)](#)
  - Intro to CNNs [Convolutional Neural Networks \(CNN\) - Free Course \(analyticsvidhya.com\)](#)
  - Official Course Page [Free Courses in Data Science and Business Analytics - Analytics Vidhya \(analyticsvidhya.com\)](#)
  - Official Blog Page [Blog - Analytics Vidhya](#)

## 8. MICROSOFT'S INTRO TO ML

Refresh your memory on Machine Learning concepts.

- [Understand data science for machine learning - Learn | Microsoft Docs](#)

## 9. VISUALIZED INTRO TO ML USING DECISION TREES AND BIAS VARIANCE TRADEOFFS

An interactive visual summary of decision trees.

- Part 1 [A visual introduction to machine learning \(r2d3.us\)](#)
- Part 2 [www.r2d3.us/visual-intro-to-machine-learning-part-2/](#)

## 10. NEURAL NETS AND DEEP LEARNING COURSES

Deep learning courses recommended by TensorFlow's playground for AI

- [Neural networks and deep learning](#)
- [Deep Learning \(deeplearningbook.org\)](#)

### 11. FAST AI DEEP LEARNING COURSE

As recommended by Hugging face

- [Practical Deep Learning for Coders | Practical Deep Learning for Coders \(fast.ai\)](#)

### 12. CMU NEURAL NETS FOR NLP

For those interested in NLP CMU(Carnegie Mellon University) offers YouTube classes on Neural networks for NLP.

- Course homepage [CS 11-747: Neural Networks for NLP \(phontron.com\)](#)
- YouTube video playlist [CMU Neural Nets for NLP 2021 - YouTube](#)

### 13. UDEMY APPLIED DEEP LEARNING COURSE{NLP}

A specific case study about how to use RNNs and LSTMs as well as Facebook's PyTorch to create a chatbot.

- Requirement: create a Udemey account
- [Free Deep Learning Tutorial - Applied Deep Learning: Build a Chatbot - Theory, Application | Udemey](#)

### 14. HUGGING FACE TRANSFORMERS COURSE(NLP)

Learn more about transformers.

- [Transformer models - Hugging Face Course](#)

### 15. ML FOR MUSICIANS

A freemium course on how ML can be used for music generation

- [Machine Learning for Musicians and Artists - an Online Machine Art Course at Kadenze](#)

### 16. ETHICS OF AI

A big part of Data science heavily relies on data collection and monitoring. This is an issue considering individual's/ companies right to privacy. Learn more about ethical approaches to handling AI.

- <https://ethics-of-ai.mooc.fi/>

## BONUS LINKS

### FREE UDEMY COURSES

A platform to get access to daily coupons for Udemy courses as well as drive links to various courses.

- NOTE: Coupons expire
  - Homepage <https://allcoursefree.com/>
  - Telegram channel: [https://t.me/udemycoupon\\_free](https://t.me/udemycoupon_free)

### FREE CODING SITES

- [freeCodeCamp](https://www.freecodecamp.org/)
- [W3Schools](https://www.w3schools.com/)
- [Sololearn](https://www.sololearn.com/)

### GITHUB LINKS

- [Enough AI/ML content to last you for a lifetime](#)
- [100 days of ML challenge](#)
- [100 days of DL challenge](#)

### TIPS:

- Leverage on recommendation tools within social media platforms e.g., Instagram, YouTube, LinkedIn.
- Search and follow data science related content so that you will receive more recommended content about the field in terms of modern-day tools or concepts.
- Make use of communities like [Towards Data Science](#).
- Make use of data science podcasts

*In the world of learning, the internet is your best friend*