

# Learning Path: Machine Learning with Youtube Video resources in detail for every

## **\*\*Machine Learning Study Plan with YouTube Video Resources\*\***

### **\*\*Module 1: Introduction to Machine Learning\*\***

\* **\*\*Video:\*\*** "Machine Learning Crash Course | Google Developers"

(<https://www.youtube.com/watch?v=eWY0vIcCpIA>)

\* **\*\*Book:\*\*** "Machine Learning Yearning" by Andrew Ng

(<https://www.deeplearning.ai/machine-learning-yearning/>)

### **\*\*Module 2: Supervised Learning\*\***

\* **\*\*Video:\*\*** "Linear Regression in Machine Learning | Simplilearn"

([https://www.youtube.com/watch?v=nBV83e-a\\_Dg](https://www.youtube.com/watch?v=nBV83e-a_Dg))

\* **\*\*Video:\*\*** "Decision Trees in Machine Learning | Simplilearn"

([https://www.youtube.com/watch?v=aK\\_p7Z2358U](https://www.youtube.com/watch?v=aK_p7Z2358U))

\* **\*\*Course:\*\*** "Supervised Machine Learning" by edX

(<https://www.edx.org/learn/supervised-machine-learning>)

### **\*\*Module 3: Unsupervised Learning\*\***

\* **\*\*Video:\*\*** "Clustering in Machine Learning | K-Means, Hierarchical Clustering | Simplilearn"

(<https://www.youtube.com/watch?v=83iq7NOdmqk>)

\* **\*\*Video:\*\*** "Principal Component Analysis (PCA) | Machine Learning | Simplilearn"

(<https://www.youtube.com/watch?v=2F1hH4n5m4w>)

\* **\*\*Article:\*\*** "A Beginner's Guide to Principal Component Analysis (PCA)"

(<https://www.coursera.org/learn/pca-for-beginners>)

#### **\*\*Module 4: Model Evaluation and Selection\*\***

\* **\*\*Video:\*\*** "Model Selection and Evaluation in Machine Learning | Simplilearn"

(<https://www.youtube.com/watch?v=57cfB3lpFGI>)

\* **\*\*Book:\*\*** "Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow" by Aurélien

Géron (<https://www.oreilly.com/library/view/hands-on-machine/9781492032649/>)

#### **\*\*Module 5: Practical Applications\*\***

\* **\*\*Video:\*\*** "Machine Learning Projects for Beginners | End-to-End Project | Simplilearn"

(<https://www.youtube.com/watch?v=x4l5KdS9W2I>)

\* **\*\*Video:\*\*** "How to Build a Machine Learning Model in Python | Coursera"

(<https://www.coursera.org/lecture/machine-learning/how-to-build-a-machine-learning-model-in-python-gnsc8>)

\* **\*\*Course:\*\*** "Machine Learning for Business Professionals" by Coursera

(<https://www.coursera.org/specializations/machine-learning-business>)