

# Learn Machine Learning in 60 Days - Study Planner

## Week 1: Python & Jupyter Basics

Get comfortable with Python syntax, variables, loops, functions, and Jupyter notebooks.

## Week 2: NumPy & Pandas

Understand arrays, dataframes, data manipulation, aggregation, and analysis.

## Week 3: Data Visualization

Learn Matplotlib and Seaborn to create charts and graphs.

## Week 4: Statistics & EDA

Cover descriptive stats, correlations, distributions, and explore datasets.

## Week 5: Machine Learning Fundamentals

Understand supervised vs. unsupervised, overfitting, train/test split.

## Week 6: Linear & Logistic Regression

Build models to predict numerical and categorical outcomes.

## Week 7: Decision Trees & Random Forests

Learn model interpretation, tree structure, and ensemble power.

## Week 8: Model Evaluation

Explore accuracy, precision, recall, F1-score, confusion matrix.

## Week 9: K-Means & Clustering

Apply unsupervised techniques for grouping data.

## Week 10: Intro to Deep Learning

# Learn Machine Learning in 60 Days - Study Planner

Understand neural networks, activation functions, and frameworks.

## Week 11: Convolutional Neural Networks (CNNs)

Use CNNs for image classification with Keras or PyTorch.

## Week 12: Capstone Project & Review

Build a mini-project from end-to-end and review all concepts.