

Learning Plan: Python Programming, Machine Learning, and Data Science

This document provides a timetable and free resources for learning Python programming, machine learning, and data science. Below are the suggested topics along with free resources and their links to help you in your learning journey.

Suggested Timetable

Week 1-2: Python Programming Basics Learn Python syntax, variables, data types, and control structures. **Week 3-4:** Advanced Python Programming Learn about object-oriented programming, libraries, and frameworks. **Week 5-6:** Introduction to Data Science Learn about data manipulation, visualization, and basic statistics. **Week 7-8:** Machine Learning Basics Learn about supervised and unsupervised learning, and basic algorithms. **Week 9-10:** Advanced Machine Learning Learn about deep learning, neural networks, and advanced algorithms.

Free Resources

Python Programming: Python for Beginners by Corey Schafer: YouTube Playlist Automate the Boring Stuff with Python by Al Sweigart: Book and Video **Data Science:** Data Science Crash Course by freeCodeCamp: YouTube Video Introduction to Data Science with Python by Microsoft on edX: edX Course **Machine Learning:** Machine Learning by Andrew Ng: Coursera Course Introduction to Machine Learning with Python by Data School: YouTube Video