

# Deep Dive: Computer Vision

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## Week-1

Hello everyone!

Let's start off our project timeline with the content for the first week. We will be covering the basics of the Python language (the easiest and most commonly used language for programming!). Here are some good resources to get you started:

Basic Python:  [Python for Beginners - Learn Python in 1 Hour](#)

Numpy:  [NumPy Tutorial - Basics in 20 Minutes! \[Updated\]](#)

Pandas: [Learn Pandas](#) | [Kaggle](#)

Data visualisation: [Learn Data Visualization Tutorials](#) | [Kaggle](#)

Moreover, we will require knowledge of PyTorch (an additional library which is essential for some of the Machine Learning tasks we will be doing later on). Here is a resource for the same: [PyTorch Playlist](#)

Note: This is an extensive playlist, and we understand that it might be too much to go through at once, especially if you are not familiar with Python/ML. Hence, you can complete this playlist in the second week if required. However, make sure that you are comfortable with all the concepts mentioned in this playlist because they are fundamental to understanding PyTorch and how we use it to implement Machine Learning techniques.

### **SHORT ASSIGNMENT (Open Task):**

Implement two simple python programs of your choice. They could be algorithms learnt in CS101, or any other program you find interesting. We just need to know that you are comfortable with the language, and ready to move on to some exciting topics :)