

Summer plans & works to do

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1 Overview

Well summer, **the season of progress**. The season to learn new things and focus on what you really want and build your career.

After spending two semester in the university, it is clear that meanwhile studying, learning **new** things, is hard! It's possible but it's hard. So summer is the time which I have to value a lot and do my best to use it right.

At the time of writing this, there are 5 days remaining of the 1401 year, a long and hard year both for Iran, my love, and myself. I learned and grew a lot during this year. I spend a whole semester in university, experienced a really *Randomly-Generated-but-Related* journey. Studied a lot, learned how to study well and meet many new and nice people.

But after all, I have to create a path to my actual career! After working and searching I finally made my decision and chose: Data Science. I really like this field, it's very amazing but hard to learn :) Besides this, I wanna learn backend engineering as well, 'cause it is much faster (faster to get result, lol) and has a slightly smaller learning curve.

The deep learning course needs a book nearby so the first book is *Deep Learning for Coders With Fastai and PyTorch*. Refreshing my Python skills is something that I never miss and enjoy a lot, and the most recent book which is published is *Python Distilled* by *David Beazly*. But I have to make a decision Watching video courses and reading books are the main activities of the summer, but without spending or more precisely, acquiring time to rest, nobody can learn anything; listening to music and podcast and watching movies are the main non-active things and biking is the main physical activity of summer.

2 Courses

These are the video courses

2.1 Deep learning

The nice deep learning course is at <https://course.fast.ai/>.

Practical Deep Learning

A free course designed for people with some coding experience, who want to learn how to apply deep learning and machine learning to practical problems.

This free course is designed for people (and bunnies!) with some coding experience who want to learn how to apply deep learning and machine learning to practical problems.

Each lesson of the course has a video and a dedicated page of the website, like [Lesson 1](#).

Notes:

- Each video is pretty long, on average they last one hour and 30 minutes! The longer the video, the more knowledge they contain AND the more attention they need AND the more practice as well.
- Each lesson has a *How to complete lesson N* section (like <https://course.fast.ai/Lessons/lesson1.html#how-to-complete-lesson-1>), in which says: *As well as watching the video and working through the notebooks, you should also read the relevant chapter(s) of the fast.ai book, Practical Deep Learning for Coders. Each lesson will tell you what chapter you need to read, just below the video*

After all, the dedicated time and effort must be huge.

2.2 FastAPI

FastAPI framework, high performance, easy to learn, fast to code, ready for production

We all know FastAPI and there is no need for more introduction. The course I wanna watch is [this course](#).

The course is a 19-hour long video which is downloaded and cut already. The important things are:

- The course is created one year ago and it is slightly outdated, so the [documentation](#) must be read along the course.
- Course will just show you how to use FastAPI and the real learning happens when doing projects.
- It's good to define nice projects whenever I came to an idea e.g. *The API to send pictures of <https://unsplash.com> to my friends :)*

3 Books

3.1 Deep Learning for Coders With Fastai and PyTorch

must-read

near-seven-hundred-pages

297

As a 622-page and comprehensive book, it needs attention and time. The book may get printed, just to be read easily.

3.2 Fluent Python

later-to-read

near-one-thousand-pages

505

I think it is the most complete Python book forever! It has nearly 1000. I love to read it but it may take a lot :(

3.3 Build a Career in Data Science

later-to-read

near-five-hundred-pages

194

It is a nice book, many good information and useful stuff are written in it. Only in 352 pages and from a nice publication: *Manning* :)

3.4 Inside the Python Virtual Machine

better-to-read

near-two-hundred-pages

108

I really want to read this. The written stuff are the most exciting parts of CPython :))

Starts from Compilation, then goes inside the Objects of Python, continues the journey to the Code object and Frames all along side the execution. The most important things I always wanted to know about :)

3.5 CPython Internals

better-to-read

near-five-hundred-pages

209

Written by the hands of Anthony Shaw and published by RealPython, is there anything to mention? NOTHING :)))
Just like 3.4 it digs down to the insiders of CPython.

4 Habits

4.1 Podcast

4.2 Music

4.3 Films

4.4 Biking