## Where will computer vision and deep learning take you next? [Day 17 of 17]

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## Congratulations!

You've made it to the final day of the crash course. You should feel pretty proud of yourself and all that you've accomplished over the last few weeks.

Think about it — you've spent this time **getting hands-on with OpenCV + deep learning and using computer vision to solve real-world problems.** 

Really — here's a quick review of what you've done:

Discovered the "hidden" deep learning-based face detector in OpenCV and learned how to use it for highly accurate face detection

Went through "OpenCV bootcamp" to learn the fundamentals of the library

Built a document scanner in OpenCV

Created a functional bubble sheet scanner and test grader

Developed a super-simple object tracker

Used OpenCV to measure the sizes of objects in an image

Delved into facial landmarks and used them to detect eye blinks in real time

Built a drowsiness detector

Explored neural networks, including using a pre-trained network to recognize thousands of everyday objects

Created your own custom datasets and used Keras and deep learning to train your network to recognize and classify images

Dabbled in real-time object detection

That's a *lot* of work you've done — and it's just the beginning.

Take a moment to consider your goals from here. What do you want to DO with your computer vision and deep learning knowledge? Where do you want to be a month from now? A year from now? Five years from now?

In the near future, a computer scientist without at least *some* knowledge of Artificial Intelligence, Deep Learning, or Computer Vision will be like an engineer without basic programming skills — **overlooked for new job opportunities, research grants, and projects.** 

Don't waste your time trying to cobble together an education from multiple sites, sources, and articles. *Deep Learning for Computer Vision with Python* is the **ultimate** 

**resource** for developers, researchers, and students *just like yourself* who want to create and implement real-world solutions to the most challenging problems, and potentially *change the world* with a new app, product, or area of research.

Don't risk letting your valuable skills "age out" by missing out on computer vision and deep learning. Set yourself apart and <u>demonstrate your commitment to joining the deep learning revolution.</u>

Whether this crash course was your first exposure to computer vision and neural networks, or you're already working in this field, <u>Deep Learning for Computer Vision with Python</u> will take your skills to expert status — fast, and I'll be there to help you every step of the way.

By the time you complete the program, no matter where you're starting from, **you'll be an expert** in deep learning for image recognition and classification — *I guarantee it*.

Yep, that's right. I stand behind the extremely comprehensive education I provide with a 100% Money Back Guarantee. No crazy hoops, no weird requirements. Just email me within 30 days, and I'll refund your money.

Do you know how many people have taken me up on that? Fewer than 5 across all my teaching products in the 5 years PylmageSearch has existed. My readers are satisfied, and I'm sure you will be, too.

## When you enroll, you'll get:

**Super practical walkthroughs** that present solutions to actual, real-world image classification problems, challenges, and competitions.

**Hands-on tutorials (with lots of code)** that not only show you the *algorithms* behind deep learning for computer vision but their *implementations* as well.

A no-nonsense teaching style that is guaranteed to cut through all the cruft and help you master deep learning for image understanding and visual recognition.

<u>Deep Learning for Computer Vision with Python</u> started out as a book, but it morphed into a complete, comprehensive *mastery program* that covers a *huge* amount of content in easy-to-follow lessons, along with video tutorials, source code, and everything else you need to be successful.

The mastery program comprises three separate bundles. Each bundle builds on top of the others — and includes *all of the content* from the previous volumes.

If you're new to deep learning, don't worry about getting stuck reading through *hundreds* of pages of complex theory and *brain-twisting equations*. That's a waste of your time.

Instead, learn by *doing*. Get your hands dirty, and start coding + training your own networks *from the beginning*. You'll be mastering machine learning and neural networks in the most hands-on way possible. I guarantee it.

And if you're already entrenched in the deep learning world, you'll find plenty of advanced content here. You'll discover how to *train your own custom object detectors* using deep learning. You'll *build a custom framework* that can be used to train *very deep architectures* on the challenging ImageNet dataset from scratch.

You'll also get access to the *exact blueprint* I use to determine which deep learning techniques to apply when confronted with a new problem. Best of all, *these solutions* and tactics can be directly applied to your current projects.

The mastery program is **insanely hands-on**. It includes lots of **visual examples** with **tons of code** so that **you can easily learn**. And you're not going to waste your time on meaningless projects that don't solve anything. You'll get to learn by solving real-world problems right from the start — without any of the boring parts you're used to seeing in other programming and technical courses courses.

Choose the bundle that's already been tailored to suit *your* personal knowledge and experience level. And *every single bundle* includes:

The eBook files in PDF, .mobi, and .epub format.

Video tutorials for each chapter in the book.

All **source code listings** so you can run the examples from the book immediately. A **downloadable** *pre-configured* **Ubuntu VirtualBox virtual machine** that ships with *all* necessary Python + deep learning libraries you will need to be successful **pre-installed.** 

Access to the *Deep Learning for Computer Vision with Python* **companion website**, so you can *keep on learning*, even after you complete the book and videos.

You can review the bundles and easily determine which one is right for you, depending on how much you want to learn, what topics you want to study, and how much you want to invest in your education.

Over the past 5 years, I've taught *thousands* of other developers, researchers, and students, just like yourself.

I've had a front row seat watching them transform from absolute beginners all the way to expert deep learning practitioners. The mastery program *really* works — and you can use it to succeed, too.

If you're ready to join the incredibly exciting world of computer vision and deep learning, then you need to pick up a copy of <u>Deep Learning for Computer Vision with</u> <u>Python.</u>

I really hope I'll see you on the other side!

Adrian Rosebrock
Chief PylmageSearcher

P.S. Remember, <u>Deep Learning for Computer Vision with Python</u> is the most hands-

on mastery program you'll find to teach you the skills you absolutely need if you want to succeed in this field. Don't miss out!

To make sure you keep getting these emails, please add <u>adrian@pyimagesearch.com</u> to your address book or whitelist us. Want out of the loop? <u>Unsubscribe</u>.

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