

What kind of libraries and programming languages a CV researcher use?

Oct 3

hilman

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You see, every time I read a CV related research paper, I am always wondering what kind of libraries and programming languages the researcher use.

Do they use mainly Matlab? How about libraries (for researchers that didn't use Matlab). Do they use OpenCV?

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Adrian Chief PyImageSearch

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It depends on the researcher and the advisor. You still see MATLAB used in the academic world for legacy reasons, either because their codebase is legacy or because the researcher themselves is "legacy" and wants to stick to what they know (not that there is anything wrong with that).

Python and R are heavily used in the research world. For CV, Python is mainly used, which also implies NumPy, Scipy, and scikit-learn. Some researchers will work scikit-learn and then create their own implementations of their algorithms.

OpenCV is most certainly used in research applications if only for basic image processing operations -- no need to reinvent the wheel.

When it comes to deep learning you'll see a lot of Caffe (*a lot* of Caffe), Keras, mxnet, Torch, and a few others.

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Thanks Adrian. Hearing this from a researcher (you of course) cleared my doubt.