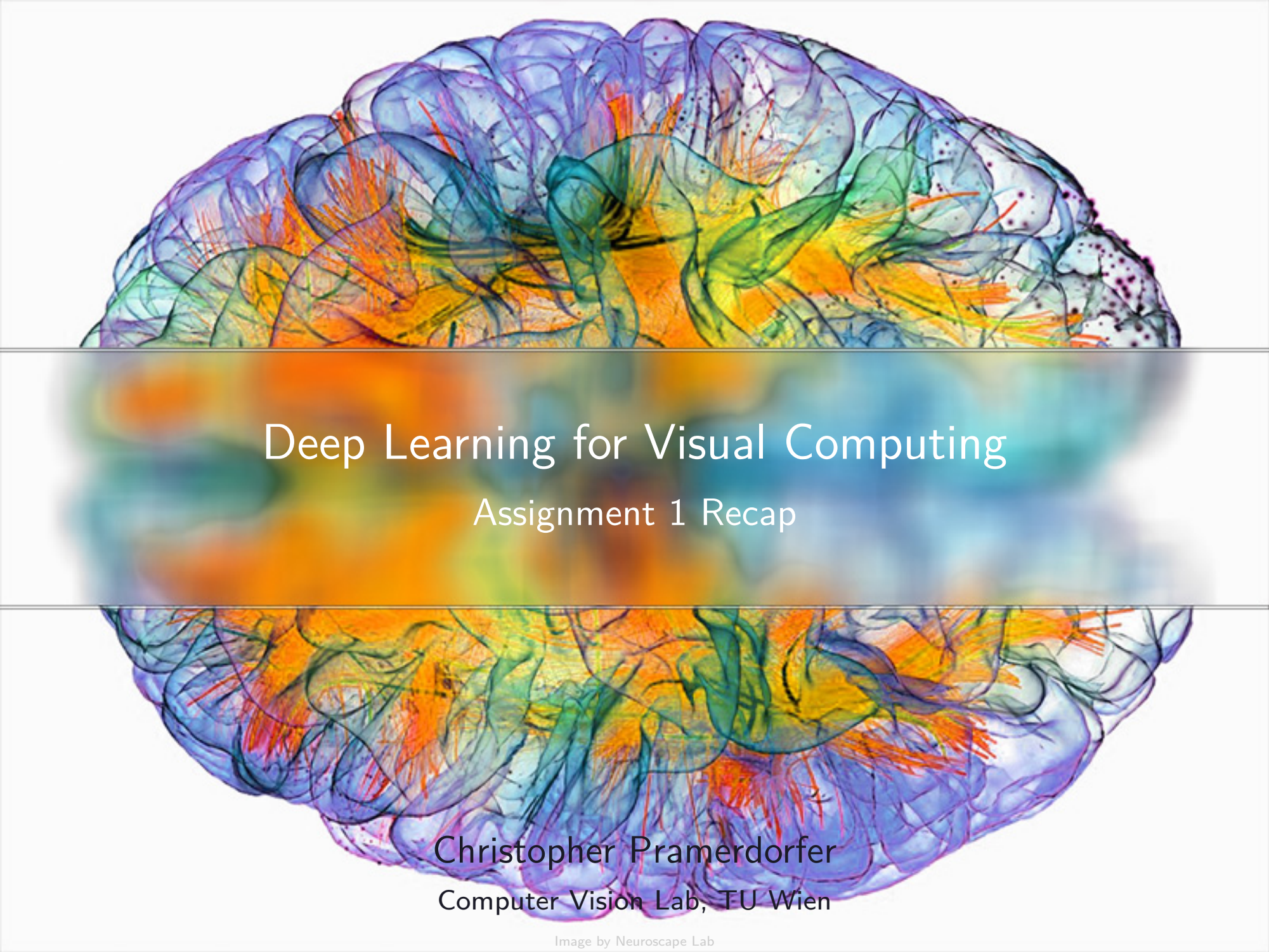

Deep Learning for Visual Computing

Assignment 1 Recap

Christopher Pramerdorfer

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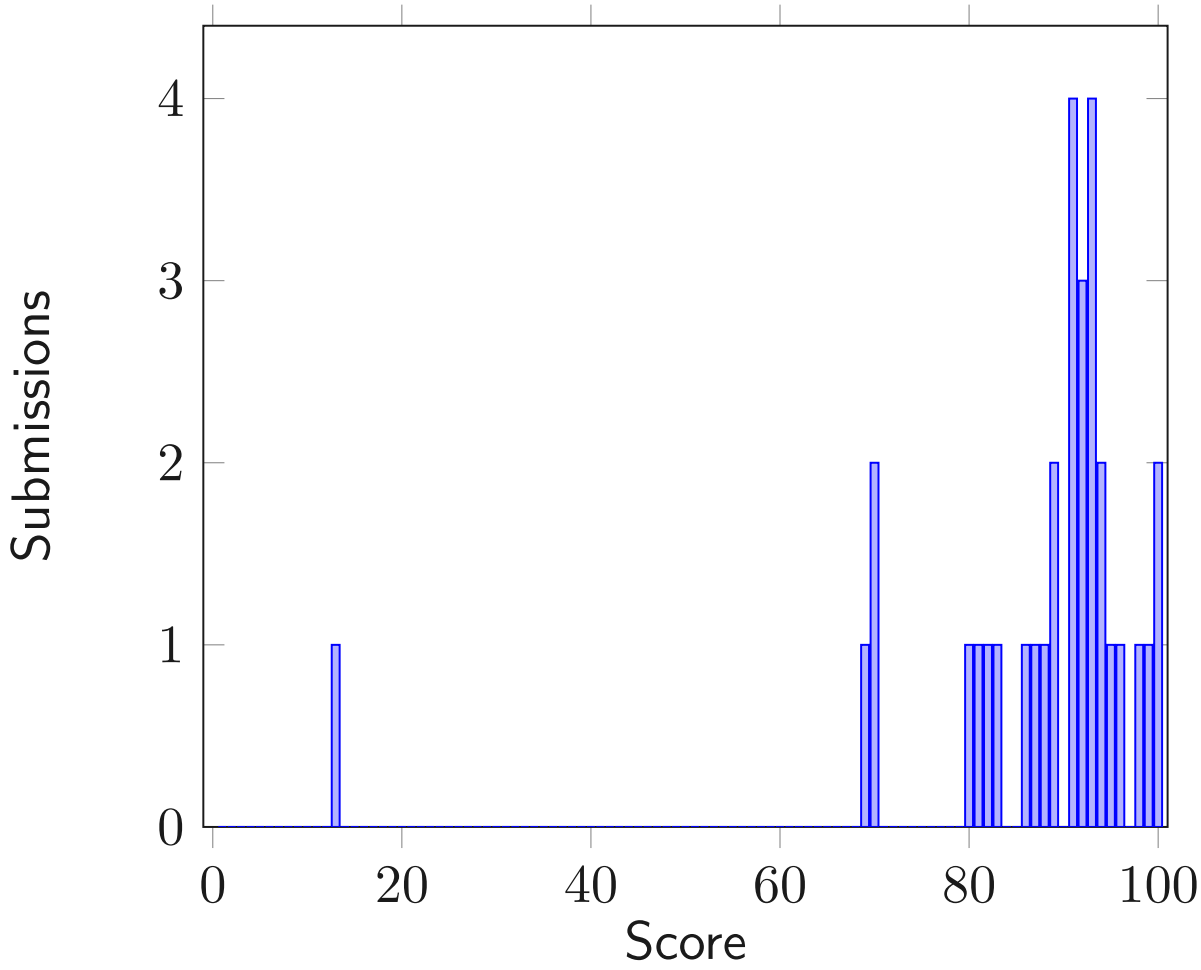
Image by Neuroscape Lab

Score Distribution (Median: 90)



Programming Languages

All groups used Python (yay!)

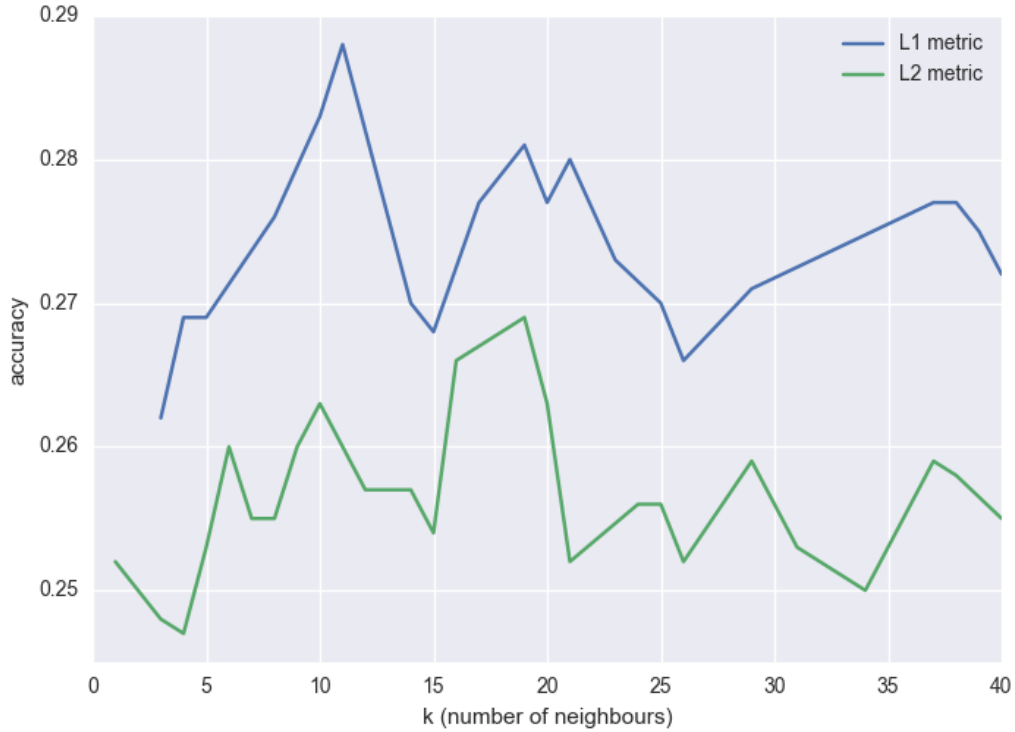
Remarks

Do not upload datasets to your home folder

All required datasets are already there (`datasets/`)

Remarks

Tables or script output do not count as visualizations



Remarks

Don't just explain what you did, but also why

"We performed a random hyperparameter search with 20 trials"

- Random search works by ...
- Approximative search methods required because ...

Remarks

Do not add “non-general” code to abstract classes

- Reduces flexibility
- Want something you can reuse later

Best practice: do not add any code to those classes

- Consider them pure interface definitions
- Use delegation to reuse code, not inheritance

Remarks

Keep general classes as general as possible to promote reuse

```
# bad, works only for 3072D vectors
def devectorize(self, fvec):
    return fvec.reshape(32, 32, 3)

# good, works for any dataset
def devectorize(self, fvec):
    # self.rows ... obtained from wrapped dataset
    return fvec.reshape(self.rows, self.cols, self.channels)
```

Code Changes

Fix errors in classes that are reused in later assignments

Otherwise errors will get carried over