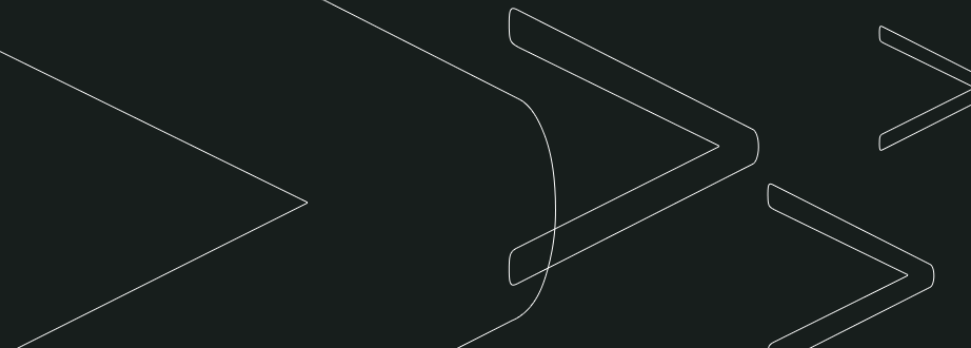


Генерація опису зображення за допомогою машинного навчання

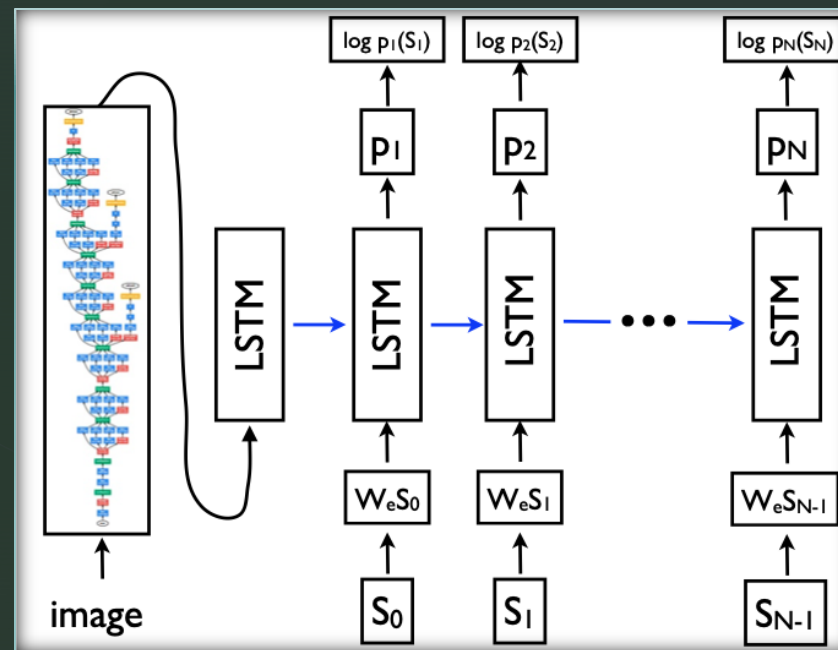
Ярослав Кладько

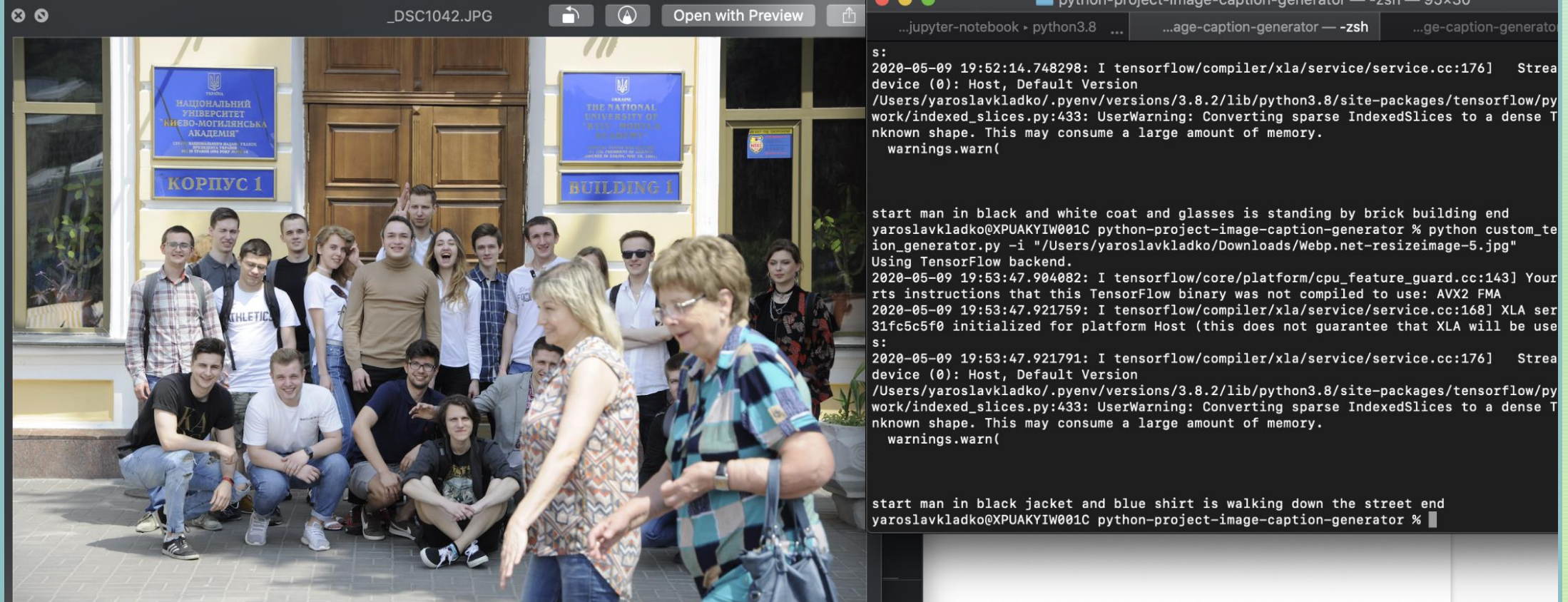


Модель show and tell

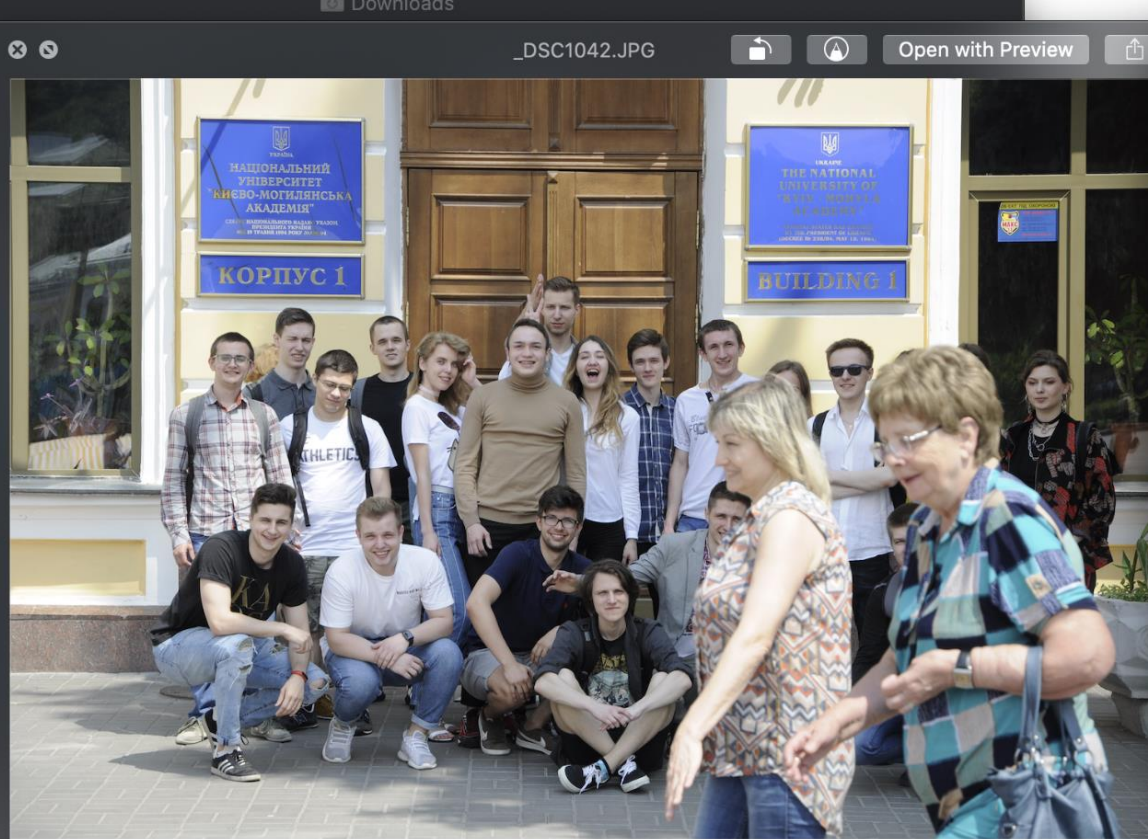
Xception

LSTM





Що вдалося?



```
python-project-image-caption-generator — -zsh — 95x30
...jupyter-notebook • python3.8 ...
...age-caption-generator — -zsh
...ge-caption-generator — -zs

s:
2020-05-09 19:52:20.044181: I tensorflow/compiler/xla/service/service.cc:176] StreamExec
device (0): Host, Default Version
/Users/yaroslavkladko/.pyenv/versions/3.8.2/lib/python3.8/site-packages/tensorflow/python/
work/indexed_slices.py:433: UserWarning: Converting sparse IndexedSlices to a dense Tensor
nknown shape. This may consume a large amount of memory.
  warnings.warn(


start man in red shirt is standing on the sidewalk end
yaroslavkladko@XPUAKYIW001C python-project-image-caption-generator % python testing_captio
erator.py -i "/Users/yaroslavkladko/Downloads/Webp.net-resizeimage-5.jpg"
Using TensorFlow backend.
2020-05-09 19:53:43.992688: I tensorflow/core/platform/cpu_feature_guard.cc:143] Your CPU s
rts instructions that this TensorFlow binary was not compiled to use: AVX2 FMA
2020-05-09 19:53:44.020288: I tensorflow/compiler/xla/service/service.cc:168] XLA service (
8e309a570 initialized for platform Host (this does not guarantee that XLA will be used). D
s:
2020-05-09 19:53:44.020308: I tensorflow/compiler/xla/service/service.cc:176] StreamExec
device (0): Host, Default Version
/Users/yaroslavkladko/.pyenv/versions/3.8.2/lib/python3.8/site-packages/tensorflow/python/
work/indexed_slices.py:433: UserWarning: Converting sparse IndexedSlices to a dense Tensor
nknown shape. This may consume a large amount of memory.
  warnings.warn(

start man in red shirt is walking down the street end
yaroslavkladko@XPUAKYIW001C python-project-image-caption-generator %
```

Що вдалося?

Webp.net-resizeimage-8.jpg

Open with Preview



image_captioning.ipynb

Rotate Left Markup More...

```
s:
2020-05-09 19:58:47.828481: I tensorflow/compiler/xla/service/service
device (0): Host, Default Version
/Users/yaroslavkladko/.pyenv/versions/3.8.2/lib/python3.8/site-pack
work/indexed_slices.py:433: UserWarning: Converting sparse IndexedS
nknown shape. This may consume a large amount of memory.
  warnings.warn(

start dog is running through the grass end
[yaroslavkladko@XPUAKYIW001C python-project-image-caption-generato
erator.py -i "/Users/yaroslavkladko/Downloads/Webp.net-resizeimage-
Using TensorFlow backend.
2020-05-09 20:01:11.219000: I tensorflow/core/platform/cpu_feature_
rts instructions that this TensorFlow binary was not compiled to us
2020-05-09 20:01:11.235032: I tensorflow/compiler/xla/service/service
6b8de3690 initialized for platform Host (this does not guarantee th
s:
2020-05-09 20:01:11.235053: I tensorflow/compiler/xla/service/service
device (0): Host, Default Version
/Users/yaroslavkladko/.pyenv/versions/3.8.2/lib/python3.8/site-pack
work/indexed_slices.py:433: UserWarning: Converting sparse IndexedS
nknown shape. This may consume a large amount of memory.
  warnings.warn(

start brown dog is running through the grass end
[yaroslavkladko@XPUAKYIW001C python-project-image-caption-generato
```

Хоча деякі добре описані

Все — за
регулюванням
параметрів