

Data Scientist

Job Description

Responsibility

- As a Data Scientist in AI Labs, you are expected to build quick prototypes of working ML/DL models with a functioning application.
- You will work closely with Business Heads to ideate & build new products.
- Apply best practices to create reliable and robust ML/DL models.
- Work on delivery engagements on a need basis.

Basic qualifications:

- A desire to work in a collaborative and intellectually curious environment.
- Demonstrated ability in building production-grade ML/DL models.
- Experience with Deep Learning frameworks like PyTorch, TensorFlow, or JAX.
- Expertise in NLP(preferred)/CV with some experience in libraries like Huggingface & Spacy.
- Working knowledge of Bash, Git, Docker, Backend Python Frameworks (Flask or Fast-API).
- You understand the complete ML/DL project life cycle.

Your profile:

- You have 3+ years of experience with Data & 2+ years of working in building AI models.
- You have experience building models that are currently deployed in some live environments.

Assignment - Solve any 1 of these

Computer Vision

Problem Pixelate an Image

Description Given an Image, split it into “n” grids, compute the average color of each grid and then stitch it back.

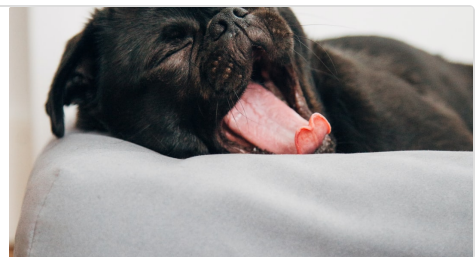
```
def pixelate(image, num_grids):  
    '''  
    Pixelate an image.  
  
    Input  
    image: sample Image  
    num_grids: # of grids to split the image into  
    Return  
    pixelated image  
    '''  
    # Your code goes here
```

Here is our favorite dog image:

Photo by Charles Deluvio on Unsplash

My black pug Toshi sleeping on his newly acquired Casper mattress bed.. Download this photo by Charles Deluvio on Unsplash

 <https://unsplash.com/photos/S2AcayPkszE>



Text

Problem Find the next billion-dollar company name.

Description Find a corpus of good english dictionary (<https://github.com/dwyl/english-words>), clean & process to find words ending with different patterns like "ai", "edu", "org", "tech", "design", etc which can then be used as your next cool company name.

For eg

Lets us consider few words ending with "ai":

- samurai
- virelai
- charpai

We can then consider our next billion-dollar company name as "samur.ai", "virel.ai", "charp.ai"

```
def billion_dollar_company(corpus, pattern):  
    '''  
    Search for the next billion dollar company name.  
    Input  
        corpus: english dictionary  
        pattern: "tech"  
    Return  
        tuple of all suggested names: (nano.tech, info.tech, pump.tech, ...)  
    '''  
    # Your code goes here
```

How to share your code?

1. Create a new Jupyter notebook & add your code using [Google Colab](#)
2. Create a publish [gist](#) and share the URL
3. Zip your .py or .ipynb files & share