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from PIL import Image
from termcolor import colored
from transformers import (
  AutoTokenizer,
  FuyuForCausalLM,
  FuyulmageProcessor,
  FuyuProcessor,
)
from swarm_models.base_multimodal_model import BaseMultiModalModel
class Fuyu(BaseMultiModalModel):
  ....
  Fuyu model by Adept
  Args:
    BaseMultiModalModel (BaseMultiModalModel): [description]
     model_name (str, optional): [description]. Defaults to "adept/fuyu-8b".
     device_map (str, optional): [description]. Defaults to "auto".
    max_new_tokens (int, optional): [description]. Defaults to 500.
     *args: [description]
     **kwargs: [description]
```

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Examples:
  >>> from swarm_models import Fuyu
  >>> model = Fuyu()
                                                            model.run("Hello,
                                                                                        world!",
                                             >>>
"https://upload.wikimedia.org/wikipedia/commons/8/86/Id%C3%A9fix.JPG")
  .....
  def __init__(
    self,
    model_name: str = "adept/fuyu-8b",
    device_map: str = "auto",
    max_new_tokens: int = 500,
    *args,
    **kwargs,
  ):
    super().__init__(model_name=model_name, *args, **kwargs)
    self.model_name = model_name
    self.device_map = device_map
    self.max_new_tokens = max_new_tokens
    self.tokenizer = AutoTokenizer.from_pretrained(model_name)
    self.image_processor = FuyuImageProcessor()
    self.processor = FuyuProcessor(
      image_processor=self.image_processor,
      tokenizer=self.tokenizer,
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)
  self.model = FuyuForCausalLM.from_pretrained(
     model_name,
    device_map=device_map,
     *args,
     **kwargs,
  )
def get_img(self, img: str):
  """Get the image from the path"""
  image_pil = Image.open(img)
  return image_pil
def run(self, text: str = None, img: str = None, *args, **kwargs):
  """Run the pipeline
  Args:
    text (str): _description_
    img (str): _description_
  Returns:
    _type_: _description_
  .....
  try:
    img = self.get_img(img)
    model_inputs = self.processor(
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text=text,
     images=[img],
     device=self.device_map,
  )
  for k, v in model_inputs.items():
    model_inputs[k] = v.to(self.device_map)
  output = self.model.generate(
     max_new_tokens=self.max_new_tokens,
     *args,
    **model_inputs,
     **kwargs,
  )
  text = self.processor.batch_decode(
    output[:, -7:],
    skip_special_tokens=True,
  )
  return print(str(text))
except Exception as error:
  print(
    colored(
       (
          "Error in"
         f" {self.__class__.__name__} pipeline:"
         f" {error}"
```

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),
"red",
)
```