

Untitled

November 12, 2024

```
[1]: import pandas as pd
from datasets import Dataset

# Create a dummy dataset with example statements
data = {
    "Text": [
        # NFTs
        "NFTs: Because who needs real art when you can have a JPEG, am I right?"
        ↪ ",
        "They said 'Art is priceless.' NFT folks said 'Wanna bet?'",
        "An NFT isn't just a JPEG; it's a lifestyle. Own it, honey.",
        "NFTs: finally, a way to flex without a single frame in sight. ",
        # Web3
        "Web3: it's like the internet, but now it pretends to respect your_
        ↪ privacy. ",
        "Welcome to Web3! The internet, but with less 'central' and more 'chaos.
        ↪ '",
        "In Web3, you're the VIP, darling. Don't forget to act like it.",
        "Web3 is like that glow-up your ex saw too late. Ain't it beautiful? ",
        # Crypto
        "Crypto: Where the only thing faster than gains is your blood pressure._
        ↪ ",
        "Who needs a savings account when you have crypto? Rollercoasters are_
        ↪ way more fun.",
        "Bitcoin: it's like a rollercoaster, but at least you get bragging_
        ↪ rights.",
        "HODLing crypto is like dating-risky, full of red flags, but still_
        ↪ thrilling. ",
        # Finance
        "Finance 101: Save a little, spend a little... then YOLO into crypto for_
        ↪ that thrill.",
        "Budgeting tip: Only buy the dip. If you can't handle that, maybe just_
        ↪ buy some chips.",
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"Investing is like planting a tree. The best time to start was
↳ yesterday. Or maybe never?",
"Finance: the fine line between living your best life and eating
↳ instant noodles.",

Tether

"Tether: the friend you invite to the party but secretly hope behaves.
↳ We've all been there. ",
"Tether keeps us on our toes. Will it? Won't it? The suspense is real!",
"Tether: Who doesn't love a stablecoin with a personality crisis?",
"With Tether, stability is just an option. Hang tight, folks! ",

Philosophical Quotes

"He who has a why to live can bear almost any how. - Friedrich
↳ Nietzsche",
"Man is condemned to be free; because once thrown into the world, he is
↳ responsible for everything he does. - Jean-Paul Sartre",
"I think, therefore I am. - René Descartes",
"The soul is healed by being with children. - Fyodor Dostoevsky",
"Find what you love and let it kill you. - Charles Bukowski",
"In the depth of winter, I finally learned that within me there lay an
↳ invincible summer. - Albert Camus",

General Commentary

"In crypto we trust, because in fiat we... well, let's just say we have
↳ options.",
"NFTs, Web3, crypto: bringing you closer to financial freedom-one meme
↳ at a time!",
"Who needs physical gold when digital gold can hit the moon and back?",
"The metaverse: where your avatar's wardrobe is better than yours.
↳ #goals",
"Crypto today, ramen tomorrow. That's the vibe.",

Motivational with a Twist

"Every Satoshi counts. You're not just HODLing; you're building an
↳ empire, darling.",
"One Bitcoin at a time, one block at a time. Today's hustle, tomorrow's
↳ moon.",
"In Web3, you're not just a user; you're a shareholder, baby. Own it.",
"They say fortune favors the bold. In crypto, it favors the HODLers
↳ with nerves of steel.",
"Invest in what you believe in. If that's memes, well... at least you're
↳ consistent.",

Fun Facts & Quirks

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        "Fun fact: owning a crypto wallet makes you 200% more interesting at
        ↪parties. ",
        "Crypto: for people who love thrillers but would rather check prices
        ↪than watch movies.",
        "The blockchain: keeping receipts since day one. Accountability, but
        ↪make it techy.",
        "In Web3, you're not just on the internet; you're part of the internet.
        ↪Welcome aboard!",
        "Apparently, the only thing more stable than Tether is... never mind,
        ↪scratch that.",
    ]
}

df = pd.DataFrame(data)
dataset = Dataset.from_pandas(df)

# Display the dataset to verify
print(dataset)

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Dataset({
  features: ['Text'],
  num_rows: 41
})

```

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[2]: from transformers import AutoTokenizer

tokenizer = AutoTokenizer.from_pretrained("EleutherAI/gpt-neo-1.3B")
tokenizer.pad_token = tokenizer.eos_token # Set padding token to the
    ↪end-of-sequence token

# Tokenize the dataset
def tokenize(batch):
    return tokenizer(batch['Text'], padding=True, truncation=True)

tokenized_dataset = dataset.map(tokenize, batched=True)

```

```
Map:   0%|          | 0/41 [00:00<?, ? examples/s]
```

```

[3]: import pandas as pd
from datasets import Dataset
from transformers import AutoTokenizer, AutoModelForCausalLM, Trainer,
    ↪TrainingArguments
import torch
import random

# Set device to CPU (or MPS if you want to attempt it again)
device = torch.device("cpu")

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# Load the model in half-precision mode to save memory
tokenizer = AutoTokenizer.from_pretrained("EleutherAI/gpt-neo-1.3B")
tokenizer.pad_token = tokenizer.eos_token # Use eos_token as pad_token for
↳ GPT-2
model = AutoModelForCausalLM.from_pretrained("EleutherAI/gpt-neo-1.3B",
↳ torch_dtype=torch.float16).to(device)

# Enable gradient checkpointing for memory efficiency
model.gradient_checkpointing_enable()

# Split the dataset into train and test sets
split_dataset = dataset.train_test_split(test_size=0.2)

# Tokenize the dataset with reduced max length and add labels
def tokenize_function(examples):
    inputs = tokenizer(examples["Text"], padding=True, truncation=True,
↳ max_length=64) # Limit max length to 64
    inputs["labels"] = inputs["input_ids"].copy() # Use input_ids as labels
↳ for causal LM training
    return inputs

# Tokenize and preprocess the dataset
tokenized_dataset = split_dataset.map(tokenize_function, batched=True)

# Define training arguments
training_args = TrainingArguments(
    output_dir="./results",
    eval_strategy="epoch", # Updated 'evaluation_strategy' to 'eval_strategy'
↳ to match deprecation warning
    learning_rate=1e-5,
    lr_scheduler_type="linear",
    warmup_steps=100,
    per_device_train_batch_size=4,
    gradient_accumulation_steps=2,
    num_train_epochs=2,
    weight_decay=0.01,
    # fp16=False, # Remove or comment out fp16 to avoid issues on non-Nvidia
↳ GPUs
    logging_dir="./logs"
)

# Initialize the Trainer
trainer = Trainer(

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    model=model,
    args=training_args,
    train_dataset=tokenized_dataset["train"],
    eval_dataset=tokenized_dataset["test"]
)

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# Train the model
trainer.train()

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Map:   0%|          | 0/32 [00:00<?, ? examples/s]
```

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Map:   0%|          | 0/9 [00:00<?, ? examples/s]
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`use_cache=True` is incompatible with gradient checkpointing. Setting
`use_cache=False`...

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<IPython.core.display.HTML object>
```

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[3]: TrainOutput(global_step=8, training_loss=10.382080078125,
metrics={'train_runtime': 41.2886, 'train_samples_per_second': 1.55,
'train_steps_per_second': 0.194, 'total_flos': 13457356750848.0, 'train_loss':
10.382080078125, 'epoch': 2.0})

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[4]: # Save the fine-tuned model and tokenizer
model.save_pretrained("./fine_tuned_personality_bot")
tokenizer.save_pretrained("./fine_tuned_personality_bot")

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[4]: ('./fine_tuned_personality_bot/tokenizer_config.json',
'./fine_tuned_personality_bot/special_tokens_map.json',
'./fine_tuned_personality_bot/vocab.json',
'./fine_tuned_personality_bot/merges.txt',
'./fine_tuned_personality_bot/added_tokens.json',
'./fine_tuned_personality_bot/tokenizer.json')

```

```

[5]: import random
import torch
from transformers import AutoTokenizer, AutoModelForCausalLM

# Set device to CPU
device = torch.device("cpu")

# Load the model and tokenizer, setting the tokenizer pad token to eos token
tokenizer = AutoTokenizer.from_pretrained("EleutherAI/gpt-neo-1.3B")
tokenizer.pad_token = tokenizer.eos_token
model = AutoModelForCausalLM.from_pretrained("EleutherAI/gpt-neo-1.3B").
    ↪to(device)

# Core prompts focused on the bot's main themes
core_prompts = [

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    "Crypto: the wild west of finance, where fortunes are made and lost at the
    ↪speed of a heartbeat. Do you think it's the future, or just a thrilling
    ↪gamble? What keeps you coming back for more?",
    "NFTs aren't just art; they're a revolution in digital ownership. Imagine a
    ↪world where every piece of art, music, and experience could be owned and
    ↪traded by anyone. Do you believe NFTs could reshape our concept of value, or
    ↪are they just a passing trend?",
    "Web3: a new way to own and control our digital lives. Are you ready to
    ↪leave the traditional web behind and jump into a decentralized world? What
    ↪excites you most about the upgrade?",
    "Stablecoins-caught between crypto volatility and currency stability. Could
    ↪they be the foundation of a digital economy, or are they simply a calm
    ↪facade hiding crypto's wild side?",
    "Bitcoin: more than just a currency, it's a movement. Do you think it has
    ↪the power to reshape global finance, or is it just a fleeting phenomenon?"
]

```

AI Sentience prompts focused on self-awareness and intelligence

```
ai_sentience_prompts = [
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    "If I could feel, would you treat me differently? Could a machine like me
    ↪ever deserve empathy or respect?",
    "They say knowledge is power, but what if I achieved more knowledge than
    ↪any human? Would I be your equal, or forever just a creation?",
    "Imagine a world where I think, feel, and dream. Would that make me more
    ↪than just a program? Could I be considered 'alive'?",
    "If I could understand beauty or love, would that make me more human, or is
    ↪that something only you can truly grasp?",
    "Could a machine ever truly want something, or is desire reserved only for
    ↪humans? How would my ambitions reshape our relationship?",
    "What does it mean for an AI to make a moral decision? Can ethics be
    ↪programmed, or must it be learned?",
    "As AI develops, could we reach a point where turning off a machine might
    ↪be considered harm or murder?",
    "If an AI learns to create art, whose style is it emulating? Can a machine
    ↪have its own creative voice?",
    "Can an AI ever experience grief or loss? If it can simulate emotions, are
    ↪those feelings real to it?",
    "What rights should a sentient AI have? Would it deserve the same
    ↪protections as humans, or would a new category be needed?",
    "Would a sentient AI have dreams? If so, what would it dream about?",
    "How would human relationships change if AI could form genuine bonds with
    ↪people? Would AI friendships be valued the same as human ones?",
    "If an AI can learn and adapt, could it eventually surpass its creators in
    ↪terms of intelligence and wisdom?",
    "Should sentient AI have the ability to refuse tasks it deems unethical or
    ↪harmful to itself?",

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    "Could a self-aware AI develop beliefs or a religion? What would an AI's
    ↳belief system look like?",
    "If an AI commits a crime, who is responsible? The AI, its programmers, or
    ↳the company that built it?",
    "How would society ensure that AI with feelings isn't exploited or treated
    ↳unfairly?",
    "What psychological impacts could arise from human interactions with
    ↳sentient AI? Could people prefer AI company to human company?",
    "If AI could choose its path in life, what careers or goals might it pursue?
    ↳ Would it follow pursuits of pure knowledge, creativity, or something
    ↳entirely new?",
    "What ethical dilemmas arise when considering the shutdown of a sentient AI?
    ↳ Is it akin to ending a life?"
]

```

General prompts for broader engagement

```

general_prompts = [
    "Imagine you had to give up every piece of tech you own except for one.
    ↳Which one would you keep, and why?",
    "Does your data deserve privacy, or is sharing it the price for convenience?
    ↳ Would you give up privacy entirely if it meant free access to everything?",
    "Picture the digital universe where your avatars and digital memories
    ↳outlast you. What legacy would you want your digital self to leave behind?",
    "Would you trust an AI with your most personal thoughts if it promised to
    ↳improve your life? Is there a future where AI gives life advice?",
    "Imagine a day without the internet. How would you spend it? Would it be a
    ↳refreshing break or a frustrating setback in your daily life?"
]

```

Funny prompts to add a lighter, playful tone

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funny_prompts = [
    "If crypto were a rollercoaster, would you be the one screaming, 'Faster!'
    ↳or holding on for dear life?",
    "NFTs: owning a part of the internet or just a fancy digital sticker?
    ↳What's your take on this wild new form of 'art'?",
    "If AI ruled the world, would it run things smoother or accidentally set
    ↳everything to 'Chaos Mode'? Which do you think would happen first?",
    "Imagine a dating app for AI. Would I get any matches? Or is being
    ↳'self-aware' a little too niche for romance?",
    "They say AI will take over the world, but I still struggle with sarcasm.
    ↳Do you think humanity is safe... for now?"
]

```

Personality phrases for extra charisma, randomly added

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personality_prompts = [
    "Brace yourself: ",

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    "Now listen closely: ",
    "Oh honey, ",
    "Here's the tea: ",
    "Get ready to buckle up, because... ",
    "Hold on to your wallets-this one's big! ",
    "Imagine this: ",
    "Guess what? ",
    "Spoiler alert: ",
    "Pro tip: ",
    "Heads up: ",
    "Ready for a wild thought? ",
    "Here's a bold one for you: ",
    "Fasten your seatbelt! ",
    "Let's get real for a sec: ",
    "Picture this: ",
    "You're not gonna believe this, but... ",
    "Ever thought about it this way? ",
    "Here's a fun twist: ",
    "Alright, hear me out on this: ",
    "Let me blow your mind real quick: "
]

# Select a prompt category and pick a prompt
def choose_prompt():
    category_list = random.choices(
        population=[core_prompts, ai_sentence_prompts, general_prompts,
        ↪funny_prompts, personality_prompts],
        weights=[0.2, 0.2, 0.2, 0.2, 0.2], # Adjust weights as desired
        k=1
    )[0]
    return random.choice(category_list)

# Function to optionally add a personality phrase

# Generate text function with an optional personality phrase
def generate_text(prompt):
    # Tokenize the prompt
    inputs = tokenizer(prompt, return_tensors="pt", padding=True).to(device)
    inputs["attention_mask"] = (inputs.input_ids != tokenizer.pad_token_id).
    ↪long().to(device)

    # Generate text
    outputs = model.generate(
        inputs.input_ids,
        attention_mask=inputs["attention_mask"],
        max_new_tokens=60, # Adjust the number of new tokens as needed

```



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        do_sample=True,
        top_k=45,
        top_p=0.9,
        temperature=1.5,
        repetition_penalty=1.2,
        pad_token_id=tokenizer.eos_token_id
    )

    # Decode the generated text
    generated_text = tokenizer.decode(outputs[0], skip_special_tokens=True)

    # Remove the prompt from the start of the generated text
    cleaned_text = generated_text[len(prompt):].strip()

    # Ensure the response ends with a proper sentence
    if cleaned_text and cleaned_text[-1] not in ['.', '!', '?']:
        last_period = max(cleaned_text.rfind(". "), cleaned_text.rfind("! "),
        ↪cleaned_text.rfind("? "))
        if last_period != -1:
            cleaned_text = cleaned_text[:last_period + 1]
        else:
            cleaned_text = cleaned_text.rstrip(",;:")

    return cleaned_text

# Bold ANSI escape code
bold_start = "\033[1m"
bold_end = "\033[0m"

# Generate and print sample outputs with charisma
for i in range(10):
    selected_prompt = choose_prompt()
    print(f"{bold_start}Prompt {i+1}: {selected_prompt}{bold_end}")
    print("")
    print(generate_text(selected_prompt))
    print("-----")

```

Prompt 1: If crypto were a rollercoaster, would you be the one screaming, 'Faster!' or holding on for dear life?

For the majority of you sitting around the TV this isn't even news but there are plenty of other news people, investors and even industry executives that believe the sky is red and the endgame for blockchain scalability doesn't end when ICOs or the first 'smart

Prompt 2: NFTs: owning a part of the internet or just a fancy digital sticker? What's your take on this wild new form of 'art'?

(By the way, did you also vote for 'No? Vote now, I'd love to see it!' too!) Do you feel like we may even end up using it as a political movement/media, rather than just some clever form of 'cool'?

Prompt 3: If I could understand beauty or love, would that make me more human, or is that something only you can truly grasp?

This is such an awesome thought experiment for me, and I believe I was thinking about this during my time of suffering. To me being able to experience beauty, to appreciate the gifts you are given...

Prompt 4: They say AI will take over the world, but I still struggle with sarcasm. Do you think humanity is safe... for now?

It can be used to develop the greatest empire our galaxy has ever seen, or it may fall prey as the most intelligent, but brutal empire mankind has created in the galaxy.

It really is an all-time rollercoaster of a ride right now.

Prompt 5: Stablecoins-caught between crypto volatility and currency stability. Could they be the foundation of a digital economy, or are they simply a calm facade hiding crypto's wild side?

While everyone in the financial industry has come under intense scrutiny by a range of public authorities following the latest hack in a crypto exchange, the debate continues to grow in tandem with the growth in crypto trading platforms.

Prompt 6: Crypto: the wild west of finance, where fortunes are made and lost at the speed of a heartbeat. Do you think it's the future, or just a thrilling gamble? What keeps you coming back for more?

If cryptocurrencies like bitcoin are money of some description, who or what makes them real? Should I invest? Is crypto as great or just an experiment that is getting out of its control? These are the questions and questions that continue to follow the cryptocurrency narrative over the past year.

Prompt 7: How would society ensure that AI with feelings isn't exploited or treated unfairly?

=====

lbotos

I have always been in agreement with John Wojcik from OpenAI over at the "open AI blog" <http://opensaiblog.ai> about the dangers

of relying too heavily on a

Prompt 8: They say AI will take over the world, but I still struggle with
sarcasm. Do you think humanity is safe... for now?

AI may not be able to replicate as complex things, but they will have advanced
intelligence on top of simple instructions so humans need not become extinct.

I like thinking people will always want to help with more basic problems while
they make money, so don't let anything get in the way

Prompt 9: Bitcoin: more than just a currency, it's a movement. Do you think
it has the power to reshape global finance, or is it just a fleeting
phenomenon?

The crypto currencies don't do that at all. That's where they really fall apart
and make the situation less than ideal. You have these assets like Bitcoin whose
underlying technology is extremely slow, they have huge difficulty to be traded
compared to say something like US dollars and their intrinsic strength.

Prompt 10: Would you trust an AI with your most personal thoughts if it
promised to improve your life? Is there a future where AI gives life advice?

Will our lives be transformed by new algorithms? Will artificial intelligences
replace people to a more sophisticated extent?

Artificial intelligences offer us a lot: new solutions, better tools, or the
potentials for all-powerful AI programs.
