In [1]:

```python
from intel_extension_for_transformers.neural_chat import build_chatbot, Pipeline
from intel_extension_for_transformers.transformers import MixedPrecisionConfig
config = PipelineConfig(optimization_config=MixedPrecisionConfig())
chatbot = build_chatbot(config)
response = chatbot.predict(query="Tell me about hospital")
print(response)
```

```
/home/u84d4d72b5657daa398c1bbfbc1db50b/.conda/envs/itrex/lib/python3.10/site-pack
ages/transformers/deepspeed.py:24: FutureWarning: transformers.deepspeed module i
s deprecated and will be removed in a future version. Please import deepspeed mod
ules directly from transformers.integrations
  warnings.warn(
Loading model Intel/neural-chat-7b-v3-1
Loading checkpoint shards:   0%|          | 0/2 [00:00<?, ?it/s]
Hospital is a place where people go when they need medical attention or treatment
for various health issues. It's a hub of healthcare professionals who work togeth
er to provide care, diagnosis, and recovery services. Hospitals often have specia
lized departments like emergency rooms, intensive care units, surgical suites, an
d diagnostic centers. They also offer support services such as pharmacies, labora
tories, and rehabilitation facilities. The ultimate goal of hospitals is to ensur
e patients receive the best possible care and return to good health.
```

In [2]:

```python
from intel_extension_for_transformers.neural_chat import build_chatbot, Pipeline
from intel_extension_for_transformers.transformers import MixedPrecisionConfig
config = PipelineConfig(optimization_config=MixedPrecisionConfig())
chatbot = build_chatbot(config)
response = chatbot.predict(query="What is intel arc")
print(response)
```

```
Loading model Intel/neural-chat-7b-v3-1
Loading checkpoint shards:   0%|          | 0/2 [00:00<?, ?it/s]
Intel Arc, formerly known as Xe HPG (High Performance Gaming), is a series of hig
h-performance graphics cards developed by Intel Corporation. These GPUs aim to co
mpete with NVIDIA and AMD in the gaming market, offering advanced features like r
ay tracing and AI-enhanced technologies for an immersive gaming experience. The A
rc lineup includes various models catering to different levels of performance and
price points, making them accessible to a wide range of users.
```

In [3]:

```python
from intel_extension_for_transformers.neural_chat import build_chatbot, Pipeline
from intel_extension_for_transformers.transformers import MixedPrecisionConfig
config = PipelineConfig(optimization_config=MixedPrecisionConfig())
chatbot = build_chatbot(config)
response = chatbot.predict(query="How does the machine learning related with ai"
print(response)
```

```
Loading model Intel/neural-chat-7b-v3-1
Loading checkpoint shards:   0%|          | 0/2 [00:00<?, ?it/s]
Machine learning is a subset of artificial intelligence (AI) focused on the devel
opment of algorithms that can learn from data without being explicitly programme
d. These algorithms adapt their behavior based on patterns they identify in the g
iven data, allowing them to improve over time. AI, as a broader concept, encompas
ses various technologies aimed at simulating human intelligence through machines,
including natural language processing, computer vision, and robotics. So, while m
achine learning is a part of AI, it plays a significant role in enabling AI syste
ms to become more efficient and accurate in performing tasks.
```

In [4]:

```python
from intel_extension_for_transformers.neural_chat import build_chatbot, Pipeline
from intel_extension_for_transformers.transformers import MixedPrecisionConfig
config = PipelineConfig(optimization_config=MixedPrecisionConfig())
```

```
chatbot = build_chatbot(config)
response = chatbot.predict(query="What is the best way to train a model of ml")
print(response)
```

```
Loading model Intel/neural-chat-7b-v3-1
Loading checkpoint shards:   0%|          | 0/2 [00:00<?, ?it/s]
The best way to train a machine learning (ML) model largely depends on your speci
fic problem, data availability, and desired outcomes. However, here's a general p
rocess to follow:

1. Understand the problem: Identify the goal or objective you want to achieve wit
h ML. This will guide your choice of algorithms and data requirements.

2. Gather data: Collect relevant, high-quality data that represents the real-worl
d scenarios you want your model to handle. Ensure it's diverse, representative, a
nd free from bias.

3. Prepare the data: Clean, organize, and preprocess the data for better understa
nding by the ML algorithm. This may involve labeling, feature engineering, and ha
ndling missing values.

4. Choose an appropriate algorithm: Select an ML algorithm suitable for your prob
lem based on its strengths and weaknesses. Popular algorithms include decision tr
ees, support vector machines, neural networks, and random forests.

5. Train the model: Feed the prepared data into the chosen algorithm and let it l
earn from the examples provided. Monitor the training progress and adjust hyperpa
rameters if necessary.

6. Evaluate the performance: Assess the accuracy and efficiency of the trained mo
del using validation datasets or cross-
```

In [5]:

```
from intel_extension_for_transformers.neural_chat import build_chatbot, Pipeline
from intel_extension_for_transformers.transformers import MixedPrecisionConfig
config = PipelineConfig(optimization_config=MixedPrecisionConfig())
chatbot = build_chatbot(config)
response = chatbot.predict(query="Tell me about intel xenon")
print(response)
```

```
Loading model Intel/neural-chat-7b-v3-1
Loading checkpoint shards:   0%|          | 0/2 [00:00<?, ?it/s]
Intel Xenon was a series of high-performance microprocessors developed by Intel C
orporation. These processors were designed for use in servers and workstations, o
ffering exceptional computing power and efficiency. The Xenon lineup included var
ious models such as the Pentium Xenon, Itanium 2 Xeon, and the Core 2 Extreme QX9
770. Each model had its unique features and capabilities, catering to different n
eeds within the server market. Intel Xenon processors played a significant role i
n advancing technology and performance in the data center industry.
```

In [ ]: