```
SageMaker SDK:
import json
import sagemaker
import boto3
from sagemaker.huggingface import HuggingFaceModel,
get_huggingface_llm_image_uri
try:
      role = sagemaker.get_execution_role()
except ValueError:
      iam = boto3.client('iam')
      role = iam.get_role(RoleName='sagemaker_execution_role')['Role']['Arn']
# Hub Model configuration. https://huggingface.co/models
hub = {
      'HF_MODEL_ID': 'abacusai/Smaug-72B-v0.1',
      'SM_NUM_GPUS': json.dumps(1)
}
# create Hugging Face Model Class
huggingface_model = HuggingFaceModel(
      image_uri=get_huggingface_llm_image_uri("huggingface",version="1.4.2"),
      env=hub,
      role=role,
)
# deploy model to SageMaker Inference
predictor = huggingface model.deploy(
      initial_instance_count=1,
      instance_type="ml.g5.2xlarge",
      container_startup_health_check_timeout=300,
 )
# send request
predictor.predict({
      "inputs": "My name is Julien and I like to",
```

})

AWS Inferentia & Trainium:

```
import json
import sagemaker
import boto3
from sagemaker.huggingface import HuggingFaceModel,
get_huggingface_llm_image_uri
try:
  role = sagemaker.get_execution_role()
except ValueError:
  iam = boto3.client("iam")
  role = iam.get_role(RoleName="sagemaker_execution_role")["Role"]["Arn"]
# Hub Model configuration. https://huggingface.co/models
hub = {
  "HF_MODEL_ID": "abacusai/Smaug-72B-v0.1",
  "HF NUM CORES": "24",
  "HF BATCH SIZE": "4",
  "HF_SEQUENCE_LENGTH": "4096",
  "HF_AUTO_CAST_TYPE": "fp16",
  "MAX BATCH SIZE": "4",
  "MAX INPUT LENGTH": "3686",
  "MAX TOTAL TOKENS": "4096",
}
# create Hugging Face Model Class
huggingface_model = HuggingFaceModel(
  image_uri=get_huggingface_llm_image_uri("huggingface-neuronx", version="0.0.20"),
  env=hub,
  role=role,
)
# deploy model to SageMaker Inference
predictor = huggingface_model.deploy(
  initial_instance_count=1,
  instance type="ml.inf2.48xlarge",
  container_startup_health_check_timeout=3600,
  volume_size=512,
)
# send request
```

Cloudformation: