

Bert

in submitting a resource to be included here, please feel free to open a Pull Request and we'll review it! The resource should ideally demonstrate something new instead of duplicating an existing resource.

Text Classification

- A blog post on [BERT Text Classification in a different language](#).
- A notebook for [Finetuning BERT \(and friends\) for multi-label text classification](#).
- A notebook on how to [Finetune BERT for multi-label classification using PyTorch](#). 🌐
- A notebook on how to [warm-start an EncoderDecoder model with BERT for summarization](#).
- [BertForSequenceClassification](#) is supported by this [example script](#) and [notebook](#).
- [TFBertForSequenceClassification](#) is supported by this [example script](#) and [notebook](#).
- [FlaxBertForSequenceClassification](#) is supported by this [example script](#) and [notebook](#).
- [Text classification task guide](#)

Token Classification

- A blog post on how to use [Hugging Face Transformers with Keras: Fine-tune a non-English BERT for Named Entity Recognition](#).
- A notebook for [Finetuning BERT for named-entity recognition](#) using only the first wordpiece of each word in the word label during tokenization. To propagate the label of the word to all wordpieces, see this [version](#) of the notebook instead.
- [BertForTokenClassification](#) is supported by this [example script](#) and [notebook](#).
- [TFBertForTokenClassification](#) is supported by this [example script](#) and [notebook](#).
- [FlaxBertForTokenClassification](#) is supported by this [example script](#).
- [Token classification](#) chapter of the 🧑🏻 Hugging Face Course.

- [Token classification task guide](#)

Fill-Mask

- [BertForMaskedLM](#) is supported by this [example script](#) and [notebook](#).
- [TFBertForMaskedLM](#) is supported by this [example script](#) and [notebook](#).
- [FlaxBertForMaskedLM](#) is supported by this [example script](#) and [notebook](#).
- [Masked language modeling](#) chapter of the 🧑🏻 Hugging Face Course.
- [Masked language modeling task guide](#)

Question Answering

- [BertForQuestionAnswering](#) is supported by this [example script](#) and [notebook](#).
- [TFBertForQuestionAnswering](#) is supported by this [example script](#) and [notebook](#).
- [FlaxBertForQuestionAnswering](#) is supported by this [example script](#).
- [Question answering](#) chapter of the 🧑🏻 Hugging Face Course.
- [Question answering task guide](#)

Multiple choice

- [BertForMultipleChoice](#) is supported by this [example script](#) and [notebook](#).
- [TFBertForMultipleChoice](#) is supported by this [example script](#) and [notebook](#).
- [Multiple choice task guide](#)

⚡ Inference

- A blog post on how to [Accelerate BERT inference with Hugging Face Transformers and AWS Inferentia](#).
- A blog post on how to [Accelerate BERT inference with DeepSpeed-Inference on GPUs](#).

Pretraining

- A blog post on [Pre-Training BERT with Hugging Face Transformers and Habana Gaudi](#).

Deploy

- A blog post on how to [Convert Transformers to ONNX with Hugging Face Optimum](#).
- A blog post on how to [Setup Deep Learning environment for Hugging Face Transformers with Habana Gaudi on AWS](#).
- A blog post on [Autoscaling BERT with Hugging Face Transformers, Amazon SageMaker and Terraform module](#).
- A blog post on [Serverless BERT with HuggingFace, AWS Lambda, and Docker](#).
- A blog post on [Hugging Face Transformers BERT fine-tuning using Amazon SageMaker and Training Compiler](#).
- A blog post on [Task-specific knowledge distillation for BERT using Transformers & Amazon SageMaker](#).

Gpt

Text Classification

- A blog post on [outperforming OpenAI GPT-3 with SetFit for text-classification](#).
- See also: [Text classification task guide](#)

Text Generation

- A blog on how to [Finetune a non-English GPT-2 Model with Hugging Face](#).

- A blog on [How to generate text: using different decoding methods for language generation with Transformers](#) with GPT-2.
- A blog on [Training CodeParrot 🦜 from Scratch](#), a large GPT-2 model.
- A blog on [Faster Text Generation with TensorFlow and XLA](#) with GPT-2.
- A blog on [How to train a Language Model with Megatron-LM](#) with a GPT-2 model.
- A notebook on how to [finetune GPT2 to generate lyrics in the style of your favorite artist](#). 🌐
- A notebook on how to [finetune GPT2 to generate tweets in the style of your favorite Twitter user](#). 🌐
- [Causal language modeling](#) chapter of the 🧑🏫 Hugging Face Course.
- [OpenAIGPTLMHeadModel](#) is supported by this [causal language modeling example script](#), [text generation example script](#) and [notebook](#).
- [TFOpenAIGPTLMHeadModel](#) is supported by this [causal language modeling example script](#) and [notebook](#).
- See also: [Causal language modeling task guide](#)

Token Classification

- A course material on [Byte-Pair Encoding tokenization](#).

LLama-2

A list of official Hugging Face and community (indicated by 🌐) resources to help you get started with LLaMA2. If you're interested in submitting a resource to be included here, please feel free to open a Pull Request and we'll review it! The resource should ideally demonstrate something new instead of duplicating an existing resource.

- [Llama 2 is here - get it on Hugging Face](#), a blog post about Llama 2 and how to use it with 🧑🏫 Transformers and 🧑🏫 PEFT.
- [LLaMA 2 - Every Resource you need](#), a compilation of relevant resources to learn about LLaMA 2 and how to get started quickly.

Text Generation

- A [notebook](#) on how to fine-tune Llama 2 in Google Colab using QLoRA and 4-bit precision. 🌐
- A [notebook](#) on how to fine-tune the “Llama-v2-7b-guanaco” model with 4-bit QLoRA and generate Q&A datasets from PDFs. 🌐

Text Classification

- A [notebook](#) on how to fine-tune the Llama 2 model with QLoRA, TRL, and Korean text classification dataset. 🌐🇰🇷

Optimization

- [Fine-tune Llama 2 with DPO](#), a guide to using the TRL library’s DPO method to fine tune Llama 2 on a specific dataset.
- [Extended Guide: Instruction-tune Llama 2](#), a guide to training Llama 2 to generate instructions from inputs, transforming the model from instruction-following to instruction-giving.
- A [notebook](#) on how to fine-tune the Llama 2 model on a personal computer using QLoRa and TRL. 🌐

Inference

- A [notebook](#) on how to quantize the Llama 2 model using GPTQ from the AutoGPTQ library. 🌐
- A [notebook](#) on how to run the Llama 2 Chat Model with 4-bit quantization on a local computer or Google Colab. 🌐

Deploy

- [Fine-tune LLaMA 2 \(7-70B\) on Amazon SageMaker](#), a complete guide from setup to QLoRA fine-tuning and deployment on Amazon SageMaker.
- [Deploy Llama 2 7B/13B/70B on Amazon SageMaker](#), a guide on using Hugging Face's LLM DLC container for secure and scalable deployment.

Gpt-2

- A blog on how to [Finetune a non-English GPT-2 Model with Hugging Face](#).
- A blog on [How to generate text: using different decoding methods for language generation with Transformers](#) with GPT-2.
- A blog on [Training CodeParrot 🦜 from Scratch](#), a large GPT-2 model.
- A blog on [Faster Text Generation with TensorFlow and XLA](#) with GPT-2.
- A blog on [How to train a Language Model with Megatron-LM](#) with a GPT-2 model.
- A notebook on how to [finetune GPT2 to generate lyrics in the style of your favorite artist](#). 🌐
- A notebook on how to [finetune GPT2 to generate tweets in the style of your favorite Twitter user](#). 🌐
- [Causal language modeling](#) chapter of the 🧠 Hugging Face Course.
- [GPT2LMHeadModel](#) is supported by this [causal language modeling example script](#), [text generation example script](#), and [notebook](#).
- [TFGPT2LMHeadModel](#) is supported by this [causal language modeling example script](#) and [notebook](#).
- [FlaxGPT2LMHeadModel](#) is supported by this [causal language modeling example script](#) and [notebook](#).
- [Text classification task guide](#)
- [Token classification task guide](#)
- [Causal language modeling task guide](#)

Roberta

Text Classification

- A blog on [Getting Started with Sentiment Analysis on Twitter](#) using RoBERTa and the [Inference API](#).

- A blog on [Opinion Classification with Kili and Hugging Face AutoTrain](#) using RoBERTa.
- A notebook on how to [finetune RoBERTa for sentiment analysis](#). 🌐
- [RobertaForSequenceClassification](#) is supported by this [example script](#) and [notebook](#).
- [TFRobertaForSequenceClassification](#) is supported by this [example script](#) and [notebook](#).
- [FlaxRobertaForSequenceClassification](#) is supported by this [example script](#) and [notebook](#).
- [Text classification task guide](#)

Token Classification

- [RobertaForTokenClassification](#) is supported by this [example script](#) and [notebook](#).
- [TFRobertaForTokenClassification](#) is supported by this [example script](#) and [notebook](#).
- [FlaxRobertaForTokenClassification](#) is supported by this [example script](#).
- [Token classification](#) chapter of the 🧠 Hugging Face Course.
- [Token classification task guide](#)

Fill-Mask

- A blog on [How to train a new language model from scratch using Transformers and Tokenizers](#) with RoBERTa.
- [RobertaForMaskedLM](#) is supported by this [example script](#) and [notebook](#).
- [TFRobertaForMaskedLM](#) is supported by this [example script](#) and [notebook](#).
- [FlaxRobertaForMaskedLM](#) is supported by this [example script](#) and [notebook](#).
- [Masked language modeling](#) chapter of the 🧠 Hugging Face Course.
- [Masked language modeling task guide](#)

Question Answering

- A blog on [Accelerated Inference with Optimum and Transformers Pipelines](#) with RoBERTa for question answering.
- [RobertaForQuestionAnswering](#) is supported by this [example script](#) and [notebook](#).
- [TFRobertaForQuestionAnswering](#) is supported by this [example script](#) and [notebook](#).
- [FlaxRobertaForQuestionAnswering](#) is supported by this [example script](#).
- [Question answering](#) chapter of the 🧠 Hugging Face Course.
- [Question answering task guide](#)

Multiple choice

- [RobertaForMultipleChoice](#) is supported by this [example script](#) and [notebook](#).
- [TFRobertaForMultipleChoice](#) is supported by this [example script](#) and [notebook](#).
- [Multiple choice task guide](#)