

LLM with Hugging Face

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[Large Language Models explained briefly](#) (A very good explanation of LLM's)

A Large Language Model (LLM) AI is an advanced artificial intelligence system designed to understand and generate human-like text based on vast amounts of data it has been trained on. It employs complex algorithms to process and analyze language patterns, allowing it to generate coherent and contextually relevant responses to queries or prompts.

LLM (Large Language Models) are what is behind ChatGPT and the rest of the AI frenzy.

What is Hugging Face?

Imagine Hugging Face as a giant toolbox for artificial intelligence, especially something called Natural Language Processing (NLP). NLP lets computers understand and process human language.

Here's what Hugging Face offers that's useful for a beginner:

1. **Pre-built Tools:** Learning AI from scratch can be overwhelming. Hugging Face provides pre-trained models, like super strong flashlights that can already see in the dark. You can use these models for tasks like translation, writing different kinds of creative text formats, or even classifying emotions in text.
2. **Easy-to-use Libraries:** Building with Legos is easier than building with raw bricks, right? Hugging Face offers libraries like Transformers, which act as Legos for AI. These libraries have functions that make it simpler to use and play around with pre-trained models.
3. **Community and Learning:** Learning AI is more fun with friends! Hugging Face has a big community of developers and a learning platform with courses specifically

designed for beginners [Hugging Face NLP Course]. You can learn from others and get help if you get stuck.

Think of it this way: Hugging Face lowers the barrier to entry for AI, especially NLP. It gives you pre-built tools, easy-to-use components, and a community to learn with, all in one place.

Hugging Face

This tutorial will guide you through creating a Hugging Face account and getting a token.

Create a Hugging Face Account:

1. Head over to the Hugging Face website: [[Hugging Face Hub](#)]
2. Click on "Sign Up" and follow the on-screen instructions. You can use your email or a GitHub account to register.
1. In Hugging Face → Underneath your login name → go to **Settings** → **Access Tokens**.
2. Click **New token**
 - a. Name: **example-token**
 - b. Type: **Write**
 - c. Click **Generate a Token**
3. Copy the token. We will need it later.

Let's take a look at building our own AI with Python.

1. Go to the following link: [LLM with Hugging Face Workshop](#)
2. Click **Open in Colab**. This should open the notebook in Google Colab.
3. Go to **File** → **Save a copy in Drive** to save your own copy.
4. Go through and try out all of the tutorials.

Assignment Submission

1. Assignment submission: Attach a screenshot of each LLM query result.