

Lesson Plan 1: Introduction to Hugging Face

Learning Objectives:

- Understand the open source pre-trained models and their importance in AI.
- Learn how to explore and select models from the Hugging Face Hub.
- Gain basic knowledge on how to use Hugging Face models for inference.

Key Vocabulary:

- Pre-trained models
- Hugging Face Hub
- Inference

Lesson Outline:

- **Direct Instruction (10 minutes):**
 - Introduction to open source pre-trained models.
 - Overview of the Hugging Face Hub and its features.
 - Demonstration of how to search for models and understand their capabilities.
- **Engaging Activity (15 minutes):**
 - Group activity: Students explore the Hugging Face Hub and select a model that interests them. They then discuss its application and potential use cases.
 - Individual activity: Students use the selected model for a simple inference task, such as text classification or sentiment analysis, using the Hugging Face Inference API.
- **Closure (5 minutes):**
 - Summary of key points discussed.
 - Encouragement for students to continue exploring the Hugging Face Hub and experimenting with different models.

Assessment of Learning:

- Quiz on the concepts of pre-trained models and the Hugging Face Hub.
- Python app using their chosen model and its potential applications.

Quickstart

We're on a journey to advance and democratize artificial intelligence through open source and open science.

🤖 https://huggingface.co/docs/huggingface_hub/en/quick-start

Run Inference on servers

We're on a journey to advance and democratize artificial intelligence through open source and open science.

🤖 https://huggingface.co/docs/huggingface_hub/guides/inference

Inference Endpoints

We're on a journey to advance and democratize artificial intelligence through open source and open science.

🤖 https://huggingface.co/docs/huggingface_hub/guides/inference_endpoints

Create and share Model Cards

We're on a journey to advance and democratize artificial intelligence through open source and open science.

🤖 https://huggingface.co/docs/huggingface_hub/guides/model-cards

Safetensors

We're on a journey to advance and democratize artificial intelligence through open source and open science.

🤖 <https://huggingface.co/docs/safetensors/index>



PEFT

We're on a journey to advance and democratize artificial intelligence through open source and open science.

🤖 <https://huggingface.co/docs/peft/index>



Transformers

We're on a journey to advance and democratize artificial intelligence through open source and open science.

🤖 <https://huggingface.co/docs/transformers/index>

