**Course Title**: Open Source Models with Hugging Face

**Provider**: deeplearning.ai

**Completion Date**: 09/29/24

**Duration**: 1 hour

**Key Skills Learned**:

* Turn a small language model into a chatbot that is capable of multi-turn conversations and to answer follow-up questions
* Translate between different languages, summarize documents, and measure similarities between two pieces of text
* Convert audio to text and convert text to audio using automatic speech recognition and text to speech respectively
* Combining object detection and text to speech models to generate audio narration to describe an image

**Relevance to the Project**:

* To use ChatGPT or some other AI models to enhance the clustering and provide more personalized feedback

**Certification or Proof**:

* https://learn.deeplearning.ai/accomplishments/52bcd354-7c83-4045-a92c-ffb569912885?usp=sharing

**Course Title**: Pretraining LLMs

**Provider**: deeplearning.ai

**Completion Date**: 10/01/24

**Duration**: 1 hour

**Key Skills Learned**:

* Build a high-quality training dataset using pre-existing datasets and online texts
* Cleaning of data using deduplication, quality and content filtering, privacy reduction, and rule-based cleaning
* Configure and initialize the weights of a model as well as observe how those decisions effect pretraining speed
* Evaluating a trained model’s performance

**Relevance to the Project**:

* To potentially pre-train or fine-tune an existing model to enhance the system’s ability to provide personalized feedback

**Certification or Proof**:

* https://learn.deeplearning.ai/accomplishments/55bac370-fc04-4cc2-b337-bfe09f8faae5?usp=sharing