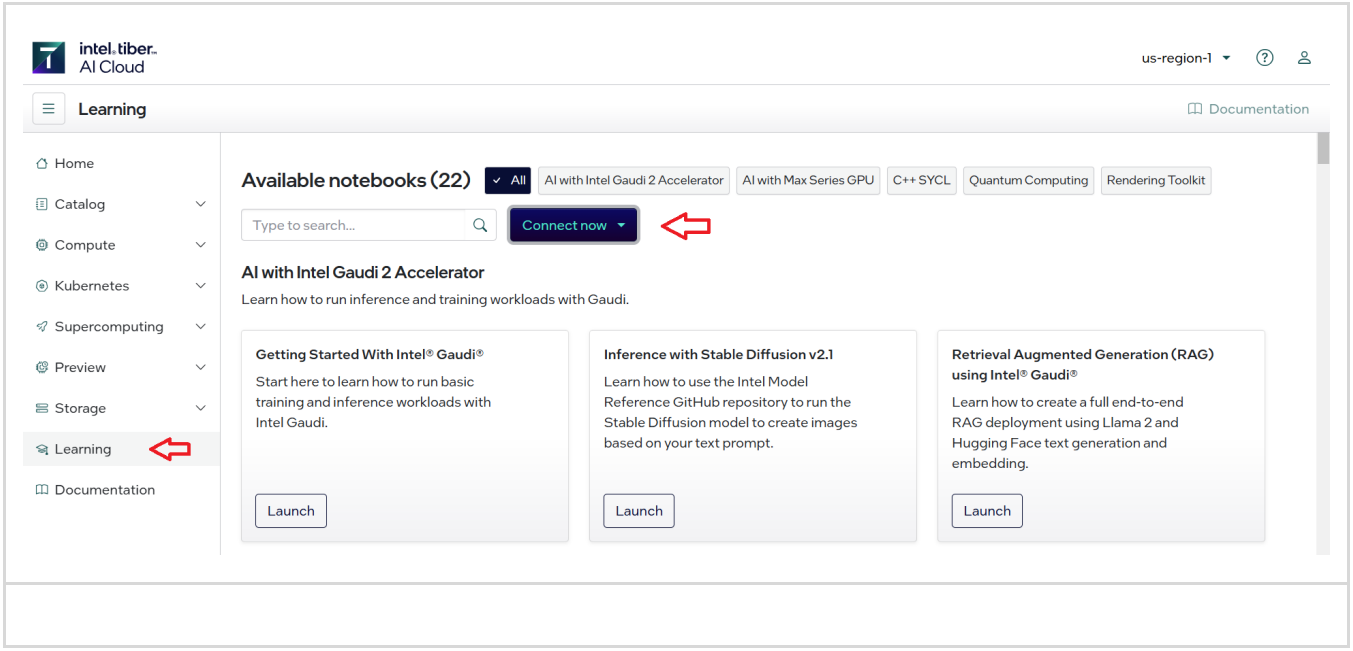
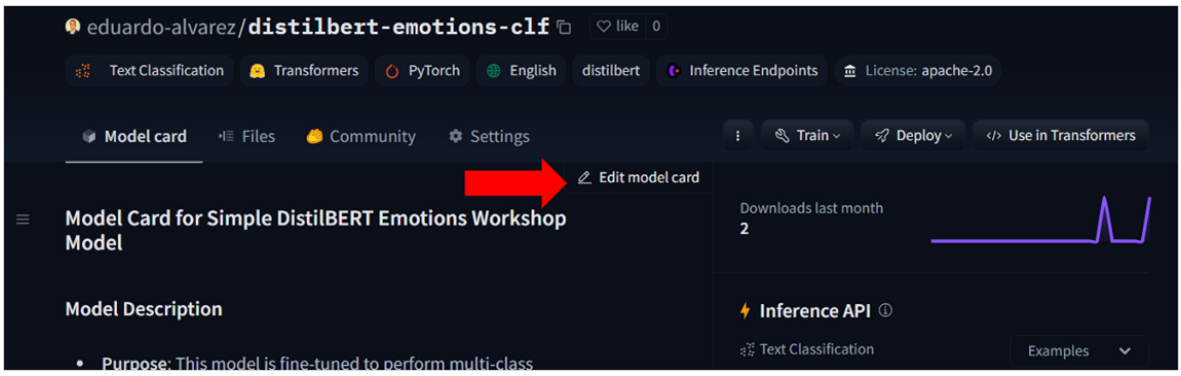
Lab 9: Your First Open Source Contribution - Lab 9 Instructions: Your First Open-Source Contribution



Step-by-step Instructions for the Lab:

1. Select the “base” kernel environment for Jupyter.
2. Open the first notebook and follow the instructions: *Part I - Leveraging Intel Optimizations with Hugging Face for Enhanced Model Performance.ipynb*
    1. In this notebook you will be fine-tuning a distilBERT model on the “emotion” dataset from Hugging Face. The output files will be saved locally.
    2. Do not delete the folder with the output files from fine-tuning, these files will be used in part II.
3. Open the second notebook and follow the instructions: *Part II - Uploading and Sharing Models on Hugging Face Hub with Intel Optimizations.ipynb*
    1. In this notebook you will take the fine-tuned model from Part I and upload it to the Hugging Face model hub.
    2. You will also follow the instructions to create and add a model card to your published model on the Hugging Face model hub.



Challenge Questions:

1. What model did the developer choose to fine-tune for multi-class emotion classification and what dataset did they use?
2. What is the purpose of creating a model card for the fine-tuned model and what metadata is typically included in it?

Challenge Question Answers:

1. The developer chose the distilbert-base-uncase model for fine-tuning and used the "emotion" dataset from Hugging Face for multi-class emotion classification.
2. The purpose of creating a model card is to provide essential metadata and critical information about the fine-tuned model to developers. A typical model card includes information such as the model's architecture, size, and performance metrics, as well as the dataset and evaluation metrics used to train and evaluate the model. It may also include information on the intended use cases and limitations of the model.

(Note: Challenge question answers may vary, and these are just sample answers.)