

# Guide for intel® Developer Cloud



Product Brief

## How to Sign Up



1. Go to Intel Developer Cloud:  
<https://cloud.intel.com/>

### Standard - Free

Explore and evaluate the latest Intel® AI products plus:

- Develop AI skills.
- Access cutting edge learning resources.
- Get support from the Intel community.

Subscribe

2. Click Get Started
3. Subscribe to "Standard" service tier and complete cloud registration.

### SOFTWARE

Training

Software Catalog

4. Select "Training"
5. Launch a Jupyter Notebook
6. Or access [Prediction Guard LLM APIs](#)

Intel experts are available on Discord to help you build a winning application!

### Hugging Face Challenge

Push your customized models to Hugging Face and gain 20 points towards the Intel prize.

See scoring rubric for more details.

## Compute Access

Choose Your Accelerator:

- **Jupyter Hub Interface:** A shared service environment backed by Intel Max series GPUs and 4th Generation Intel® Xeon® Scalable Processors.

## Project Ideas

- **Music Generator:** Create an AI-based tool that generates new music compositions based on a given genre or prompt.
- **AI-Powered Story Writer:** Build a tool that auto-generates short stories or scripts based on a theme or set of characters.
- **Stable Diffusion Comic Book Creator:** Utilize generative AI to create dynamic comic book layouts and stories.
- **PDF Chat:** Develop an interactive PDF where users can chat with an AI to get summarized content or translations on the fly.

## References and Goodies

Access [Prediction Guard LLM APIs](#)

[Intel BigDL for LLMs](#) - Inference and Finetuning using LoRA

[Intel Extension for Transformers](#) - Accelerated LLMs on CPUs

[Intel extension for TensorFlow](#) - Optimized for CPUs and GPUs

[Intel extension for PyTorch](#) - Optimized for CPUs and GPUs

[OpenVINO music Generation](#) - Generative application using OpenVINO

## Getting Started

Quickly integrate Intel's AI tools into your project with these code snippets for PyTorch, chatbots.

For example,

### Intel Extension for PyTorch:

```
import torch
import intel_extension_for_pytorch as ipex
model = Model().eval()
data = ...
dtype = torch.float32 # torch.bfloat16, torch.float16 onl supported on GPUs

model = model.to('xpu') # `xpu` is the device name for GPUs, if using CPUs, use `cpu`
data = data.to('xpu')
model = ipex.optimize(model, dtype=dtype)
```

### Intel AI Tools for Chatbots:

```
# pip install intel-extension-for-transformers
from intel_extension_for_transformers.neural_chat import
build_chatbot
chatbot = build_chatbot()
response = chatbot.predict("Tell me about Intel Xeon Scalable Processors.")
```