



How to Sign Up



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

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](#)

Show us what you've built at Intel's booth and get a chance to receive awesome Intel swag and enter a raffle!

Hugging Face Challenge

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

See scoring rubric below for more details.

If you want to deploy on a dedicated machine (CPU based) stop by Intel's booth.

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.")
```

Best Use of Intel Developer Cloud Scoring Rubric

Category	Missing	Low	High
IDC Development	0 pts - No use of Intel® Developer Cloud; the solution is not valid for judging.	5 pts – Use of IDC Jupyter Notebook for development.	10 pts – Complete development and showcase on IDC or integration of Prediction Guard APIs, aligning with hackathon category.
Open Source	0 pts – The project is not open source.	20 pts GitHub Repo – the project is open-source with proper documentation for application with mention of Intel® Developer Cloud usage. -OR- Model on Hugging Face – A fine-tuned model is open-sourced with the complete model card.	40 pts – A finetuned model has been submitted to the HuggingFace leaderboard with a complete model card. BONUS 5pts: Intel optimization inference code sample.
Intel® AI Tools/Libraries	0 pts – The project shows no use of Intel® AI Tools/libraries.	20 pts – Some use of Intel® AI Tools/libraries, including at least one of the following: -Intel® Extension for PyTorch* -Intel® Extension for Scikit-learn* -Intel® Distribution of Modin -Intel® oneAPI Math Kernel Library (oneMKL) -Intel® Extension for TensorFlow* -Intel® Neural Compressor -Intel® Extension for Transformers	30 pts – Extensive use and integration of Intel® AI Tools/libraries into project, including optimizations such as usage of the BF16 datatype. Highlights performance improvement using these tools. BONUS 5pts: Successful INT8 quantization and deployment of model.
Problem Solving	0 pts – The project does not show any creative solution or solving of a real-world use case.	10 pts – The project shows at minimum some creative use of GenAI and UI elements to solve a real-world use case.	20 pts – The project has excellent UI and clearly solves a real-world use case. Uses GenAI and take aspects like LLM hallucinations into consideration.

BONUS 5 pts: Post your project on social media tag @IntelSoftware and add hashtag #HackwithIntel

Intel Judges can award fractional points at will, based on their evaluation of the project. Intel judges retains complete discretion in allocating points for each category.