



Resource guide

AI PC Overview

AI PCs:

- The AI PC from Intel
<https://www.intel.com/content/www/us/en/products/docs/processors/core-ultra/ai-pc.html>
- AI PC Use Cases
<https://www.intel.com/content/www/us/en/products/docs/processors/core-ultra/ai-pc-resources.html>
- What is an AI PC and How Can It Help Me?
<https://community.intel.com/t5/Blogs/Tech-Innovation/Artificial-Intelligence-AI/What-is-an-AI-PC-and-How-Can-It-Help-Me/post/1552423>
- What is a GPU?
<https://www.intel.com/content/www/us/en/products/docs/processors/what-is-a-gpu.html>
- NPU Device
<https://docs.openvino.ai/2024/openvino-workflow/running-inference/inference-devices-and-modes/npu-device.html>

Intel products for AI PCs:

- Intel® Core™ Ultra Processors
<https://www.intel.com/content/www/us/en/products/details/embedded-processors/core-ultra.html>
- Intel® Arc™ GPUs
<https://www.intel.com/content/www/us/en/products/docs/discrete-gpus/arc/software/ai-playground.html>
- OpenVINO™ Toolkit for AI PC
<https://www.intel.com/content/www/us/en/developer/tools/openvino-toolkit/ai-pc.html>
- Working with NPU in OpenVINO™
<https://docs.openvino.ai/2024/notebooks/hello-npu-with-output.html>
- Optimize Distributed AI Training Using Intel® oneAPI Toolkits
<https://www.intel.com/content/www/us/en/developer/articles/technical/optimize-distributed-ai-training-oneapi-toolkits.html>

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- Intel® Distribution for Python*
<https://www.intel.com/content/www/us/en/developer/tools/oneapi/distribution-for-python.html>
- Intel® oneAPI Math Kernel Library (oneMKL)
<https://www.intel.com/content/www/us/en/developer/tools/oneapi/onemkl.html#gs.k3bagz>
- Intel® Tiber™ AI Cloud
<https://www.intel.com/content/www/us/en/developer/tools/tiber/ai-cloud.html>
- Intel® Deep Learning Boost (Intel® DL Boost)
<https://www.intel.com/content/www/us/en/artificial-intelligence/deep-learning-boost.html>
- Intel® Hardware Shield Overview <https://www.youtube.com/watch>
- Intel® Software Guard Extensions (Intel® SGX)
<https://www.intel.com/content/www/us/en/developer/tools/software-guard-extensions/overview.html>

AI Frameworks, libraries and tools:

- TensorFlow
<https://www.tensorflow.org/>
- TensorFlow* Optimizations from Intel
<https://www.intel.com/content/www/us/en/developer/tools/oneapi/optimization-for-tensorflow.html>
- PyTorch* Foundation
<https://www.intel.com/content/www/us/en/developer/articles/community/ai-ml-testimonial-pytorch.html>
- PyTorch* Optimizations from Intel
<https://www.intel.com/content/www/us/en/developer/tools/oneapi/optimization-for-tensorflow.html>
- PyCharm <https://www.jetbrains.com/pycharm/>
- Keras <https://keras.io/>
- CUDA Toolkit <https://developer.nvidia.com/cuda-toolkit>
- NVIDIA CUDA® Deep Neural Network library (cuDNN)
<https://developer.nvidia.com/cudnn>
- Jupyter Notebook <https://jupyter.org/>
- Visual Studio Code <https://code.visualstudio.com/>

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AI PC Use Cases:

- CUDA Toolkit <https://developer.nvidia.com/cuda-toolkit>
- NVIDIA CUDA® Deep Neural Network library (cuDNN) <https://developer.nvidia.com/cudnn>
- Zoom <https://www.youtube.com/watch?v=A-JmlexJjTw> <https://www.intel.com/content/www/us/en/customer-spotlight/stories/zoom-customer-story.html>
- Adobe Premier Pro <https://www.youtube.com/watch?v=EgeBRjnco34> <https://www.adobe.com/products/premiere.html>
- Canvid <https://www.youtube.com/watch?v=MCybn9ZdhcQ> <https://www.canvid.com>
- XSplit https://www.youtube.com/watch?v=WsL5F_Jm0V0 <https://www.xsplit.com>
- Microsoft Copilot <https://www.youtube.com/watch?v=87sSuvmKeNg> <https://copilot.cloud.microsoft>
- CrowdStrike <https://www.intel.com/content/www/us/en/it-management/intel-it-best-practices/advancing-intels-security-posture-with-crowdstrike.html> https://www.youtube.com/watch?v=iJDyo3n4E_U <https://www.crowdstrike.com>
- McAfee <https://www.youtube.com/watch?v=XYxatgwZ3IU> <https://www.mcafee.com>

Other Resources:

- Thunderbolt™ Technology <https://www.intel.com/content/www/us/en/architecture-and-technology/thunderbolt/overview.html>
- GitHub <https://github.com/>
- Microsoft Copilot <https://copilot.cloud.microsoft/>
- OpenAI Codex <https://openai.com/index/openai-codex/>



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- Natural Language Processing (NLP)

<https://www.intel.com/content/www/us/en/research/news/natural-language-processing-research.html>