Software specifications

Chapter number	Software required (With version)	Free/Proprietary	Download links to the software	Hardware specifications	OS required
1 - 8	PyTorch	Open source	http://www.pytorch.org	Single board computer to multi cluster cloud	All popular OS
3, 8	Docker	Open source	https://www.docker.com	Single board computer to multi cluster cloud	All popular OS
1 - 8	CUDA	Free	https://developer.nvidia.com/cuda-downloads	Single board computer to multi cluster cloud	All popular OS
8	Flask	Open source	http://flask.pocoo.org/	Single board computer to multi cluster cloud	All popular OS
8	ONNX	Open source	https://onnx.ai/	Single board computer to multi cluster cloud	All popular OS
8	MxNet model server	Open source	https://github.com/awslabs/mxnet-model-server	Single board computer to multi cluster cloud	All popular OS
8	RedisAI	Open source	https://oss.redislabs.com/redisai/	Single board computer to multi cluster cloud	All popular OS

Detailed installation steps (software-wise)

1. **PyTorch**: If you have CUDA and cuDNN installed, PyTorch installation is simple (for GPU support, but in case you are trying out PyTorch and don't have GPUs with you, that's fine too). PyTorch's home page (`https://pytorch.org/`) shows an interactive screen to select the OS and package manager of your choice. Choose the options and execute the command to install it.
2. **Docker**: Docker is available for all popular operating system platforms. Detailed installation for each OS can be found at documentation page at `https://docs.docker.com/`.
3. **CUDA**: Nvidia's CUDA toolkit is available for all popular OS. To install CUDA on your system, you will need a CUDA enabled GPU. Detailed installation steps can be found at `https://docs.nvidia.com/cuda/`.
4. **Flask**: Flask can be installed using `pip`, just like any other Python package: `pip install flask`.
5. **ONNX**: ONNX can be installed using `pip`, just like any other Python package: `pip install onnx`.
6. **MXNet**: The MXNet package can be installed via `pip` just like any other Python package: `pip install mxnet`.
7. **RedisAI**: Detailed installation steps can be found at, `https://oss.redislabs.com/redisai/`.