Development Roadmap

Roadmap

IDEA: Idea only

IMPL: implementation started

TEST: testing / fixing bugs / untested

CMPL: completed

CMUP: completed but update required

2020

- Inter-pipeline communication protocol
    - (IMPL) flatbuf
    - (IMPL) protobuf
    - (IMPL) mediapipe
- (IDEA) "Tensor-IF" (a new element!)
- (IDEA) Memcpy-less-ness for GPU/NPU operations
- AI Hardware accelerator libraries and neural network frameworks as tensor-filter
    - (CMPL) edge-TPU
    - (CMPL) movidius-X
    - (CMPL) nnruntime/nnfw
    - (CMUP) SNAP: SNAP v2 released with API updates
    - (TEST) vivante
    - (IDEA) SNPE
- (IDEA) ML Training framework (a new element!)
- (IMPL) Simple & Efficient Training Framework (nntrainer), "0.1" release
    - (IDEA) Integrate as a subplugin for ML Training framework
    - (IDEA) Do On-Device Reinforced Learning in an NNStreamer Pipeline!
- Deeper integration to OS
    - (IMPL) Configurable Android AAR build scripts and releases
    - (IMPL) Add to Debian/Ubuntu (not just PPA!)
    - (IMPL) Full features integrated with Tizen .NET APIs
- Tensor-filter API updates
    - (IMPL) Filter subplugin as a C++-class
    - (IDEA) Lambda-function as a filter subplugin.

2021

- Edge-AI (Edge-Device-Cloud AI)
- Distributed pipeline w/ dynamicity & robustness supports
- OS: Windows / iOS
- APIs for Rust?
    - Rust APP API
    - Rust subplugin API

2022

History

2018: Start of the project (2018.3.)

2019