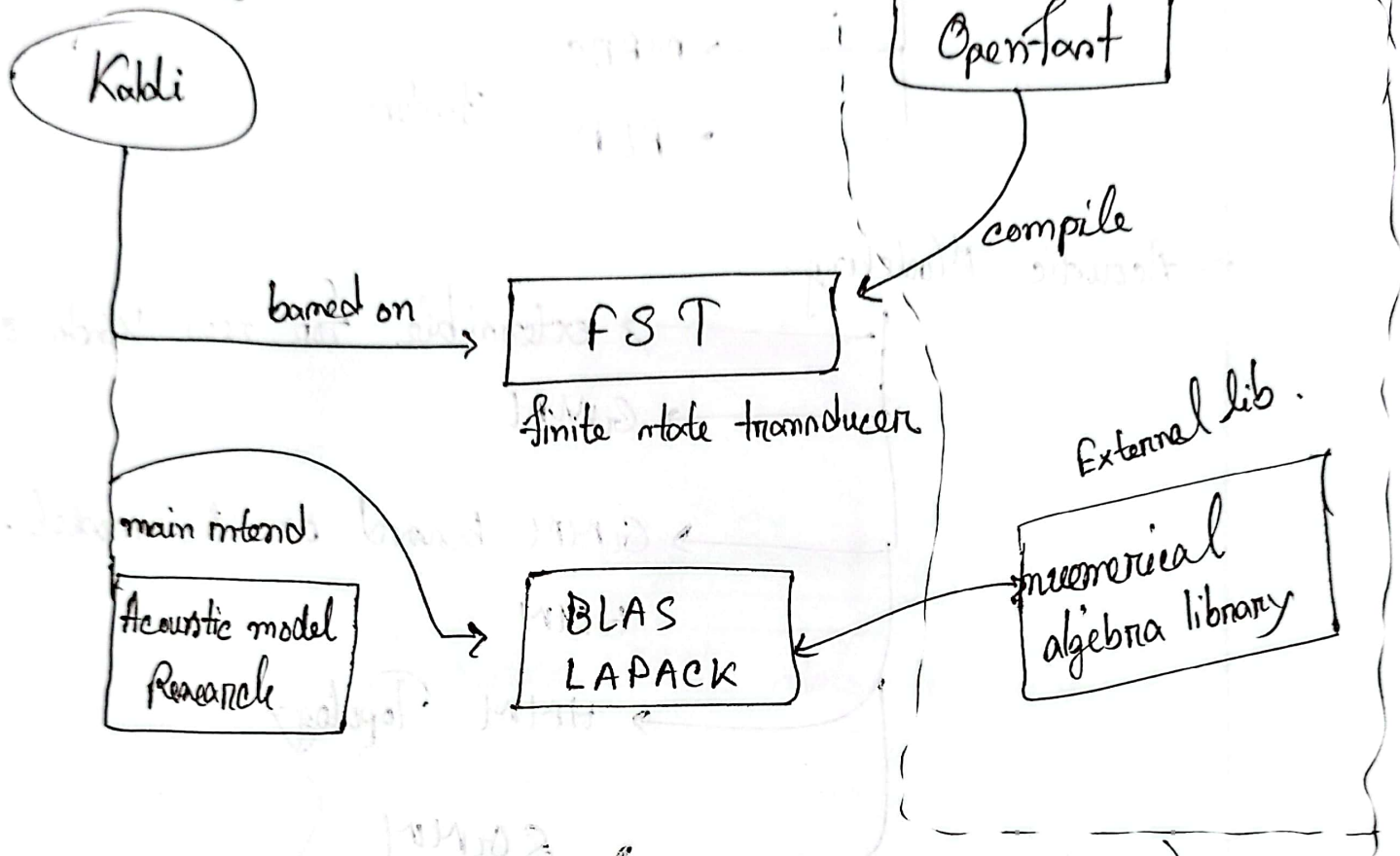
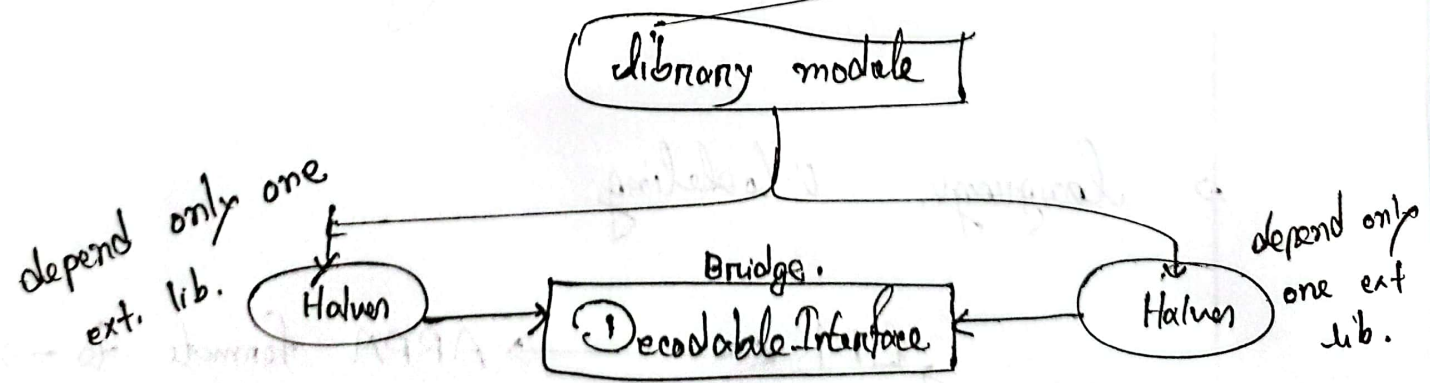


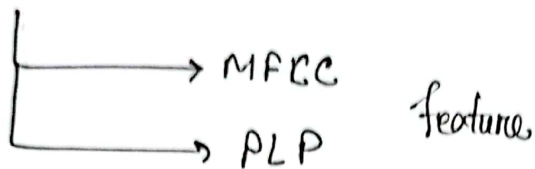
Speech Recognition System



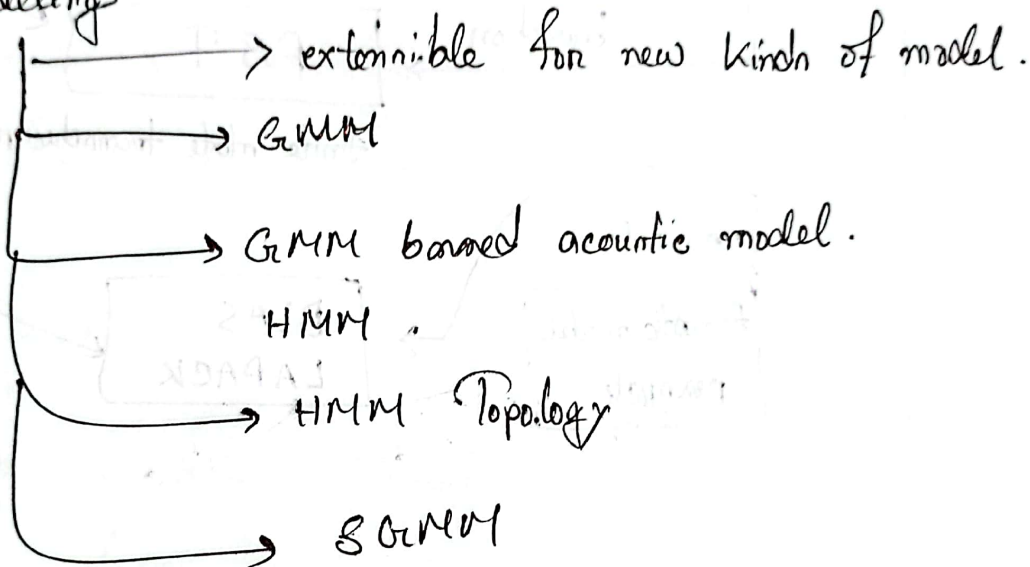
⇒ why Kaldi? not others ASR tool.
modern, flexible, cleanly structured code.



→ Feature extraction



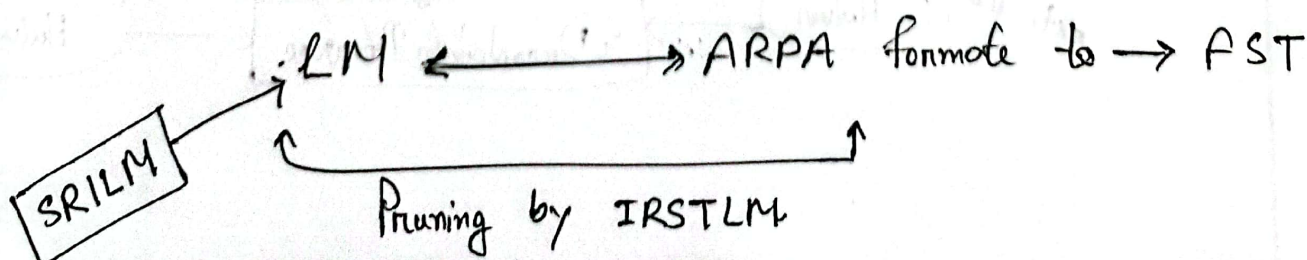
→ Acoustic Modeling

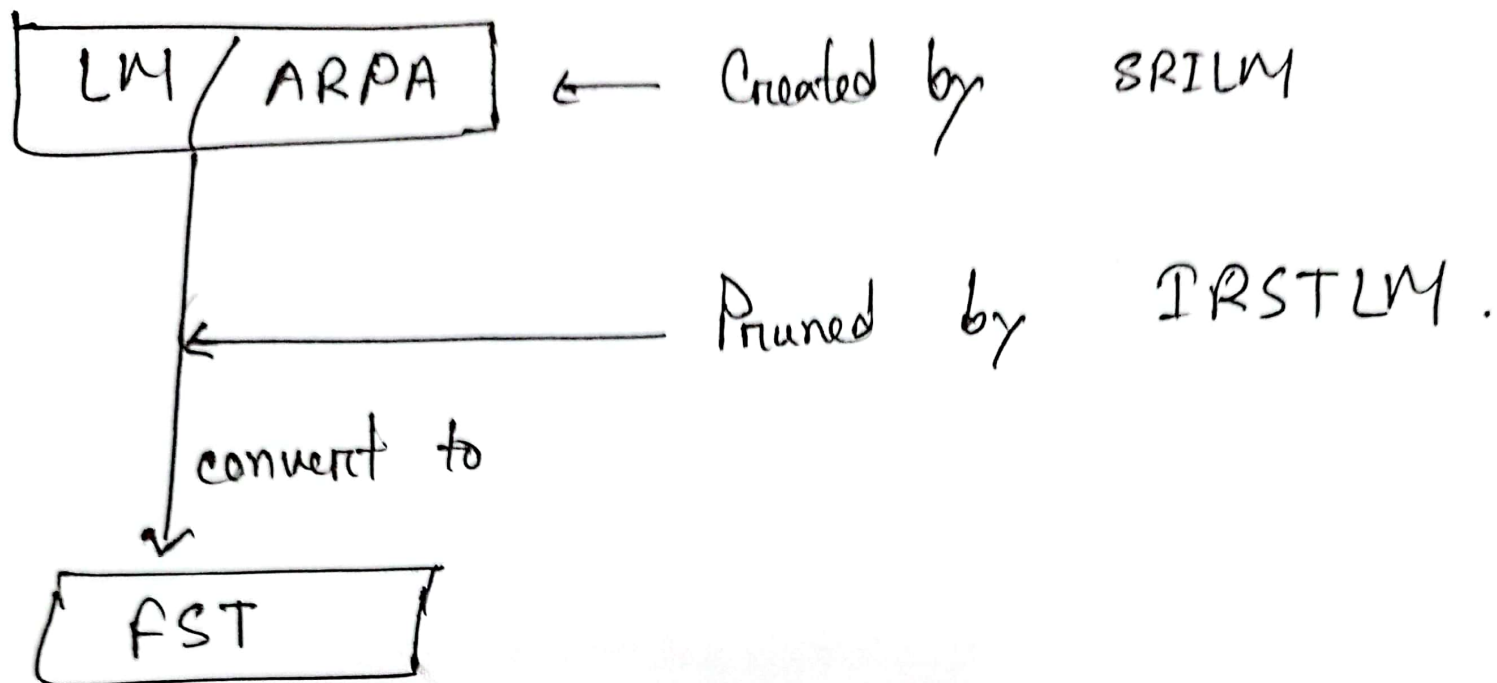


→ Phonetic decision tree (build)

↓
tree clustering of the phone.

→ Language Modeling





Creating Decoding Graph.

Weighted finite state transducer.

Transition Probabilities

Decoder.

C++ Core decoding algorithms.

Kaldi

External Libraries

BLAS/LAPACK

Openfst

Kaldi C++ Library

Matrix

Utils

LM

Tree

FST

Feat

GMM

HMM

SGMM

Decoder

Decodable

Kaldi C++ Executables

Shell Script