

frameworks & cases

frameworks

cases

CNNs



RNNs



CNNs



RNNs



Frameworks: CNNs

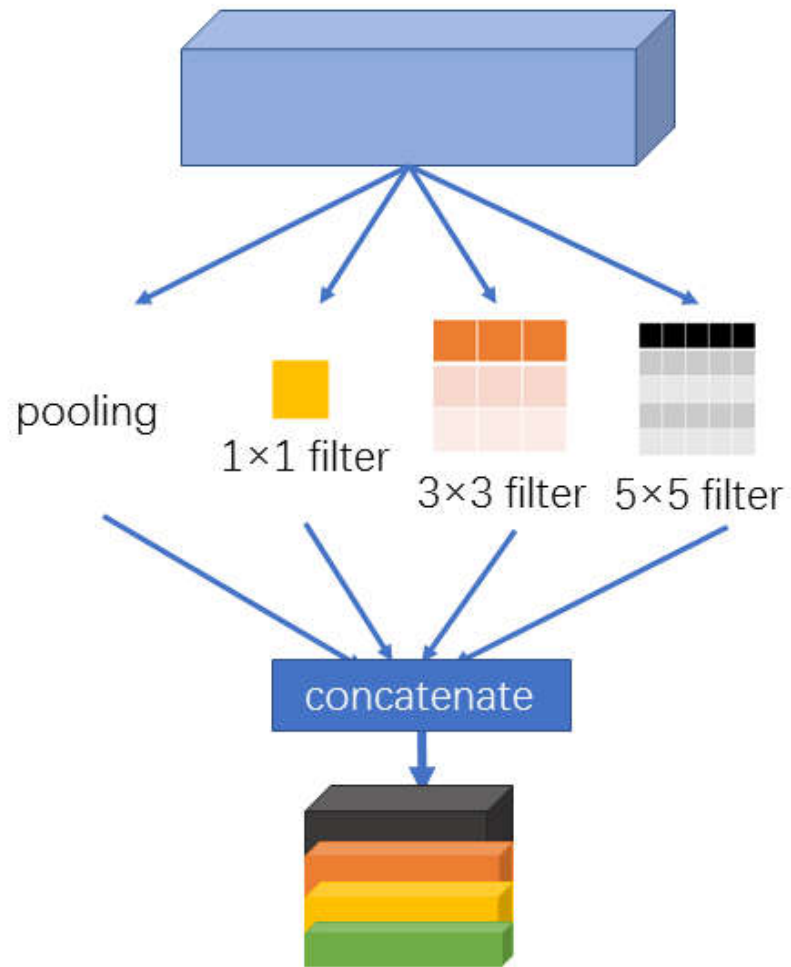
AlexNet

VGG

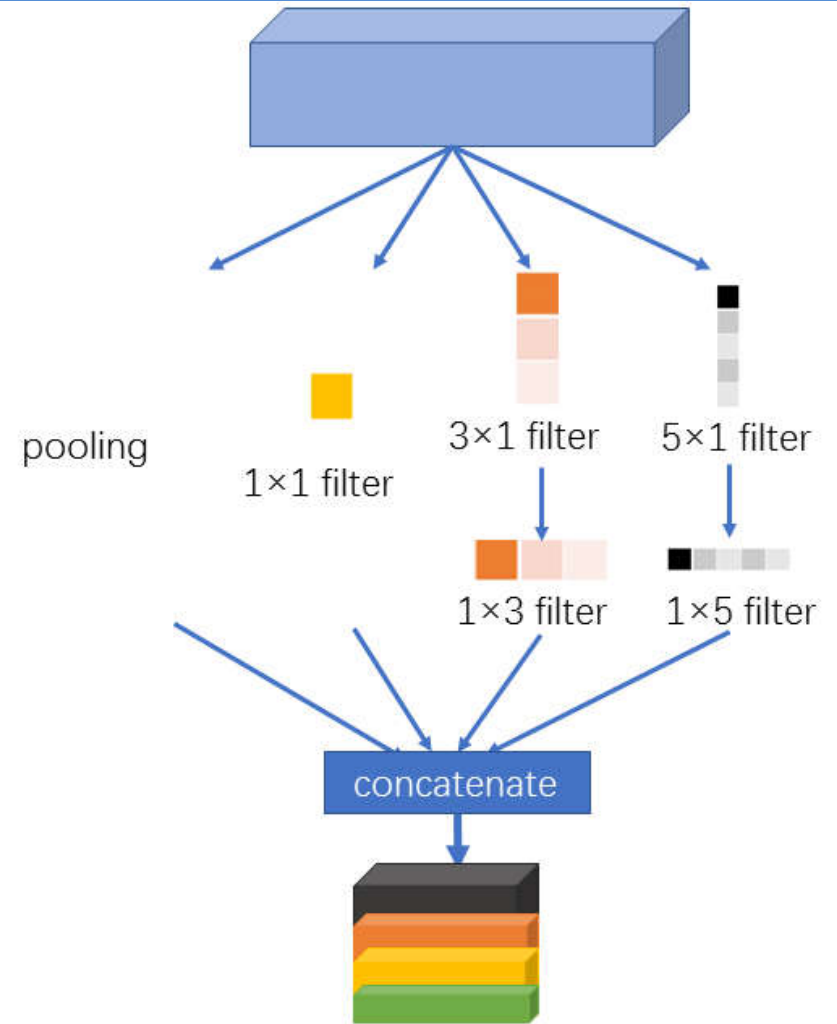
Inception 

ResNet 

Inception

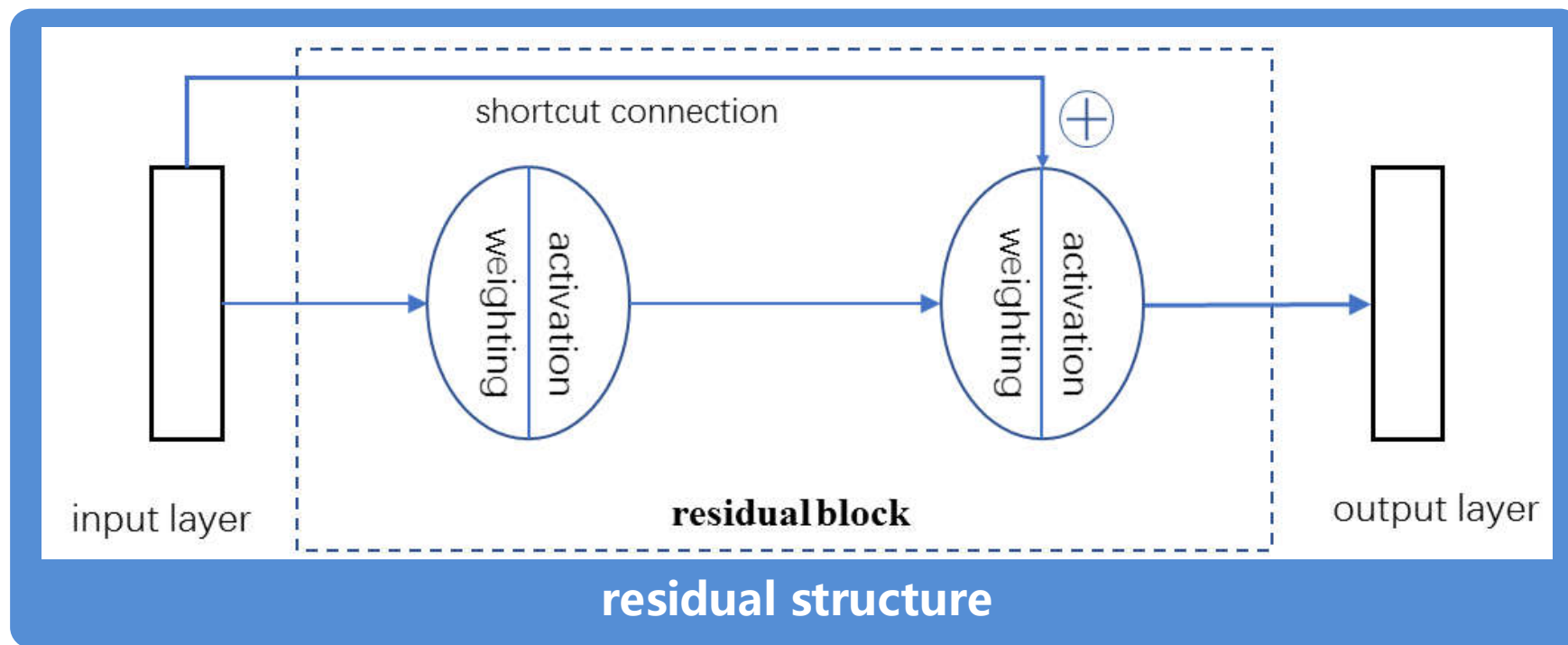


basic block



modified block

ResNet



Frameworks: RNNs

Basic RNN 

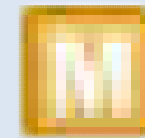
GRU 

LSTM 

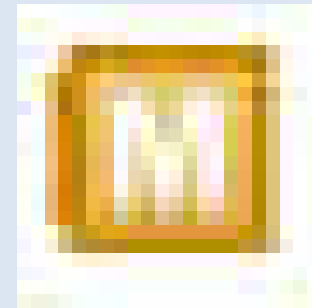
Bidirectional RNN 

attention model 

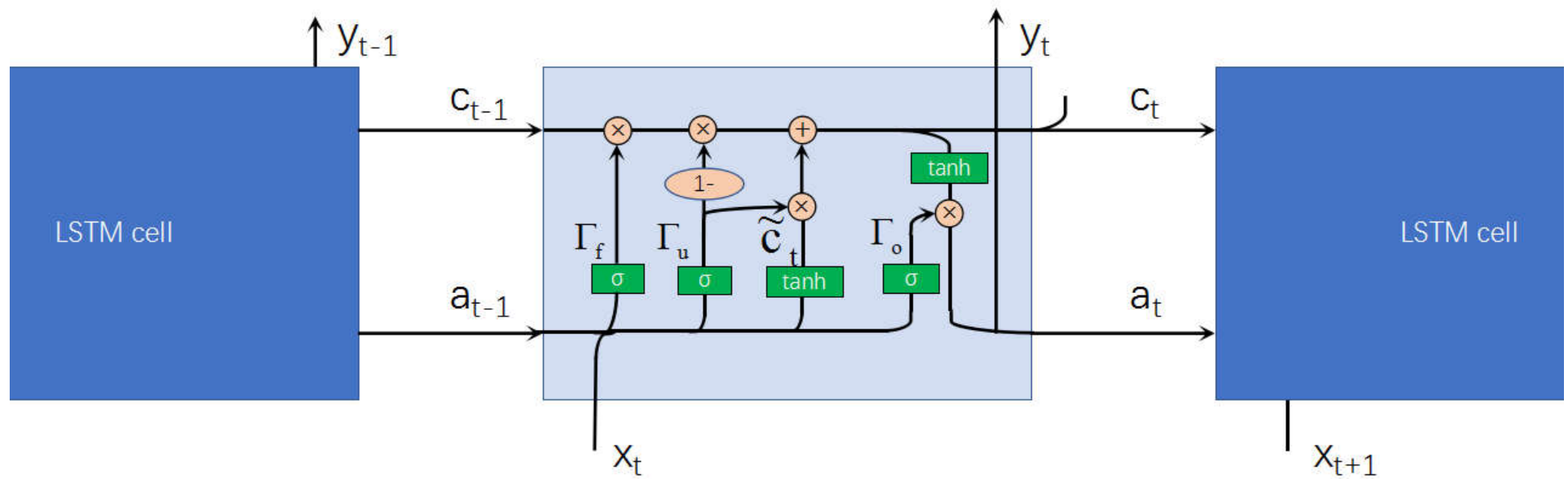
Basic RNN



GRU

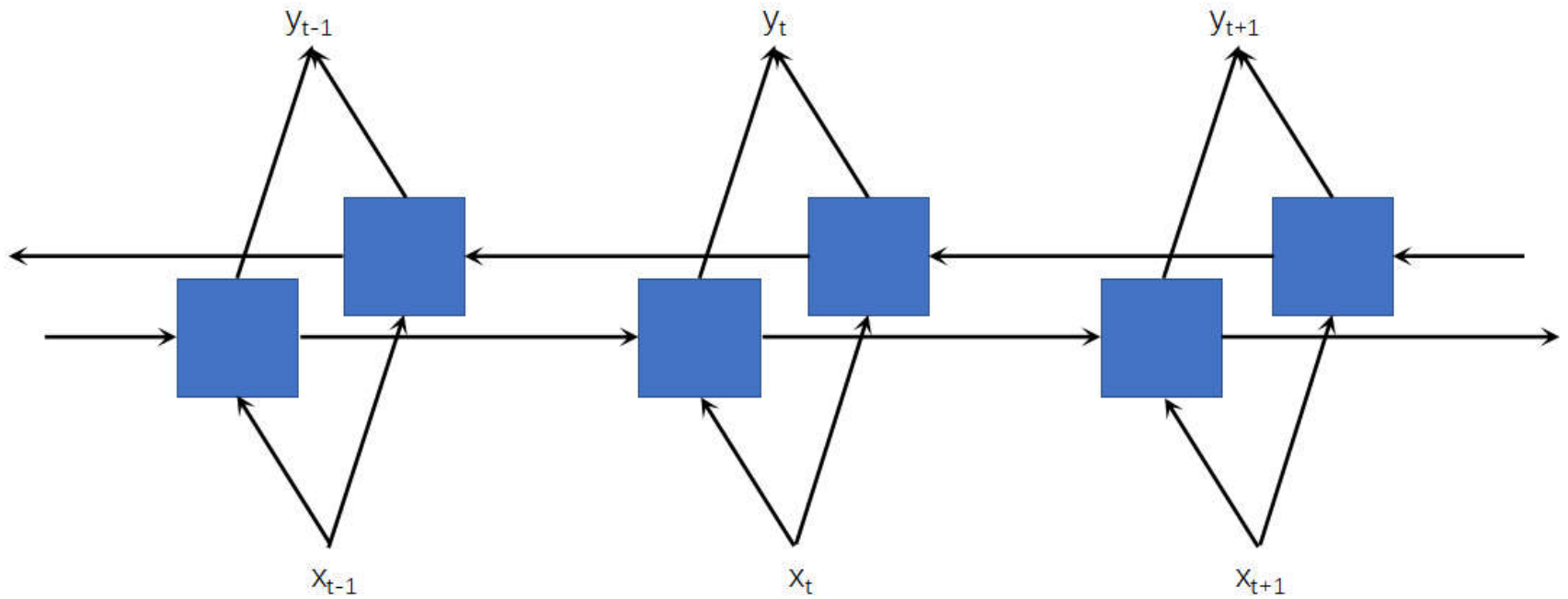


LSTM



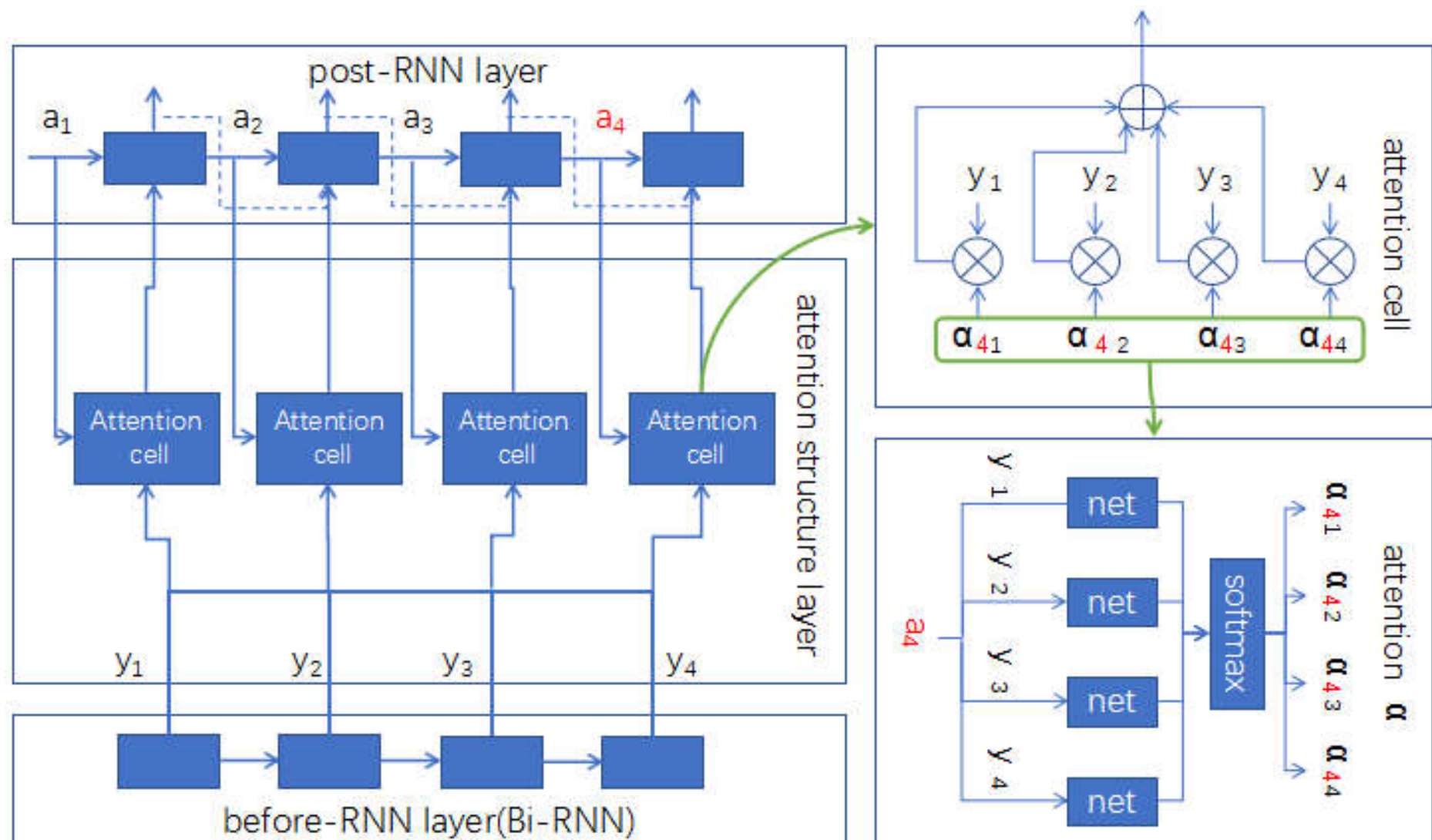
LSTM cell structure

Bidirectional RNN 📖



structure

attention model



Cases: CNNs

multi-classification

face recognition 

style transfer generation 

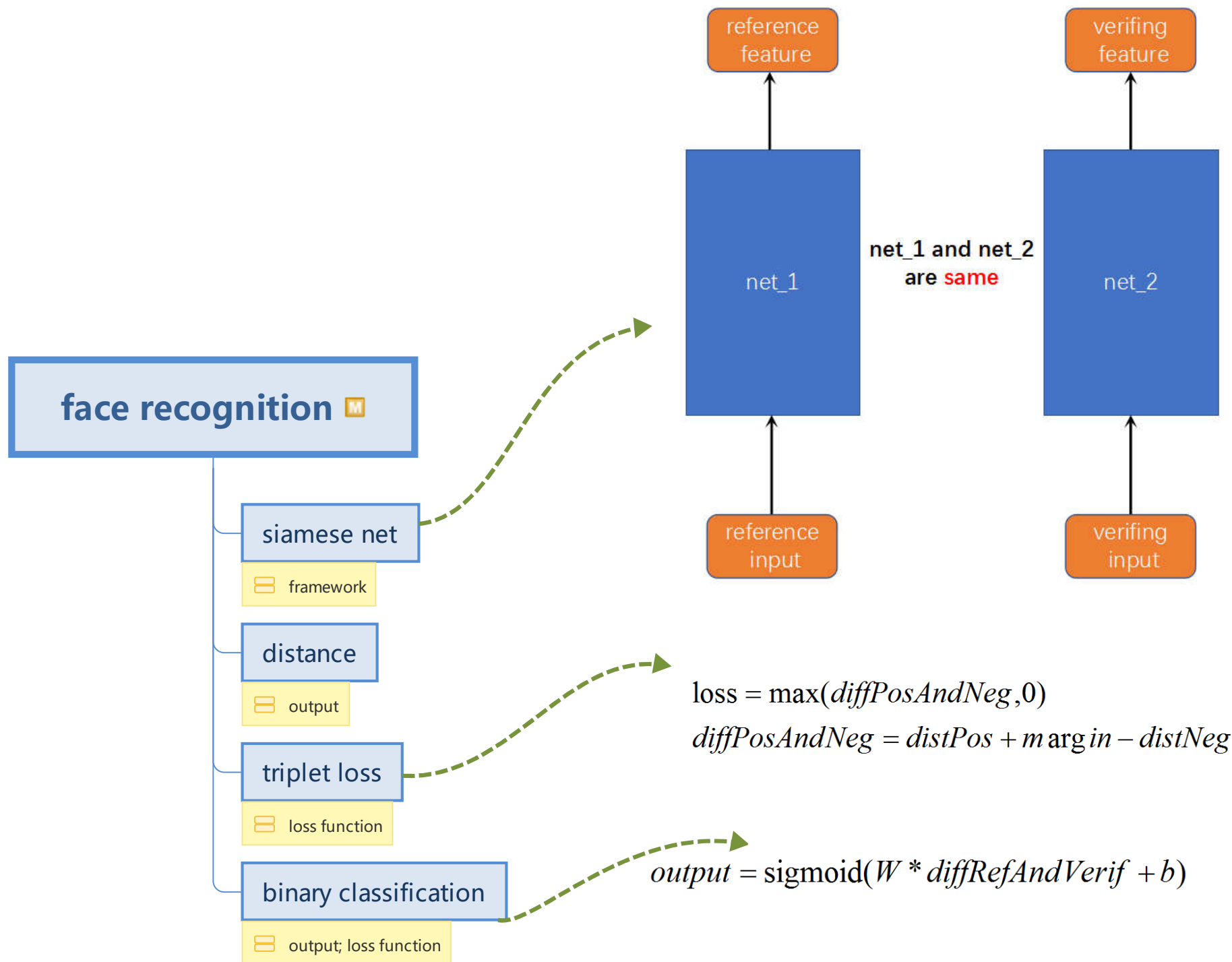
objection recognition 

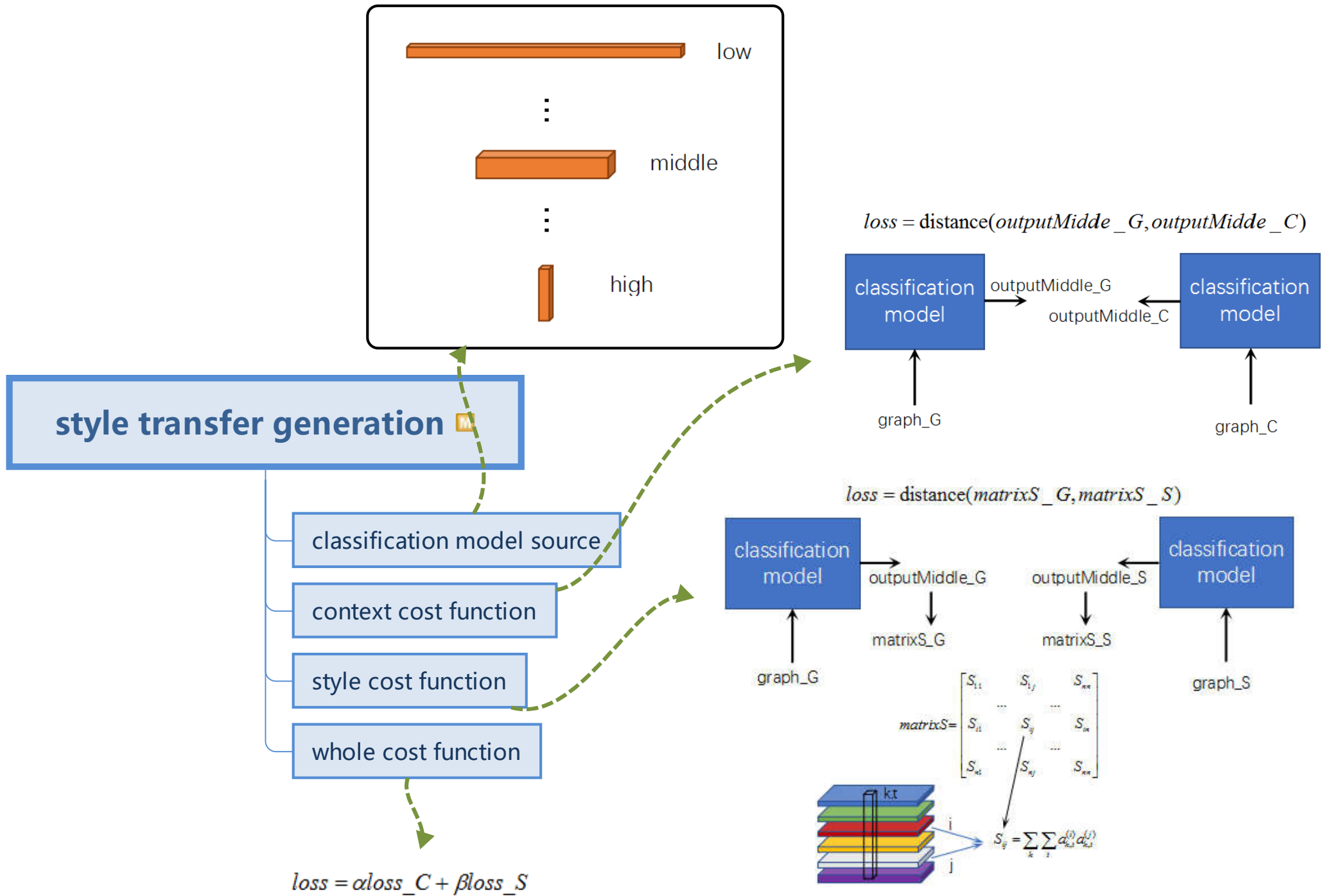
RNNs

sequence generation 

machine translation 

audio recognition 





objection recognition 📄 M

object location

object localization

landmark finding

window sliding

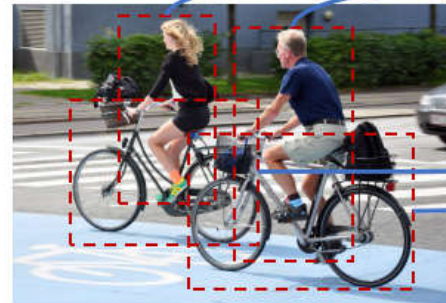
IoU

non-max suppression

anchor

YOLO algorithm

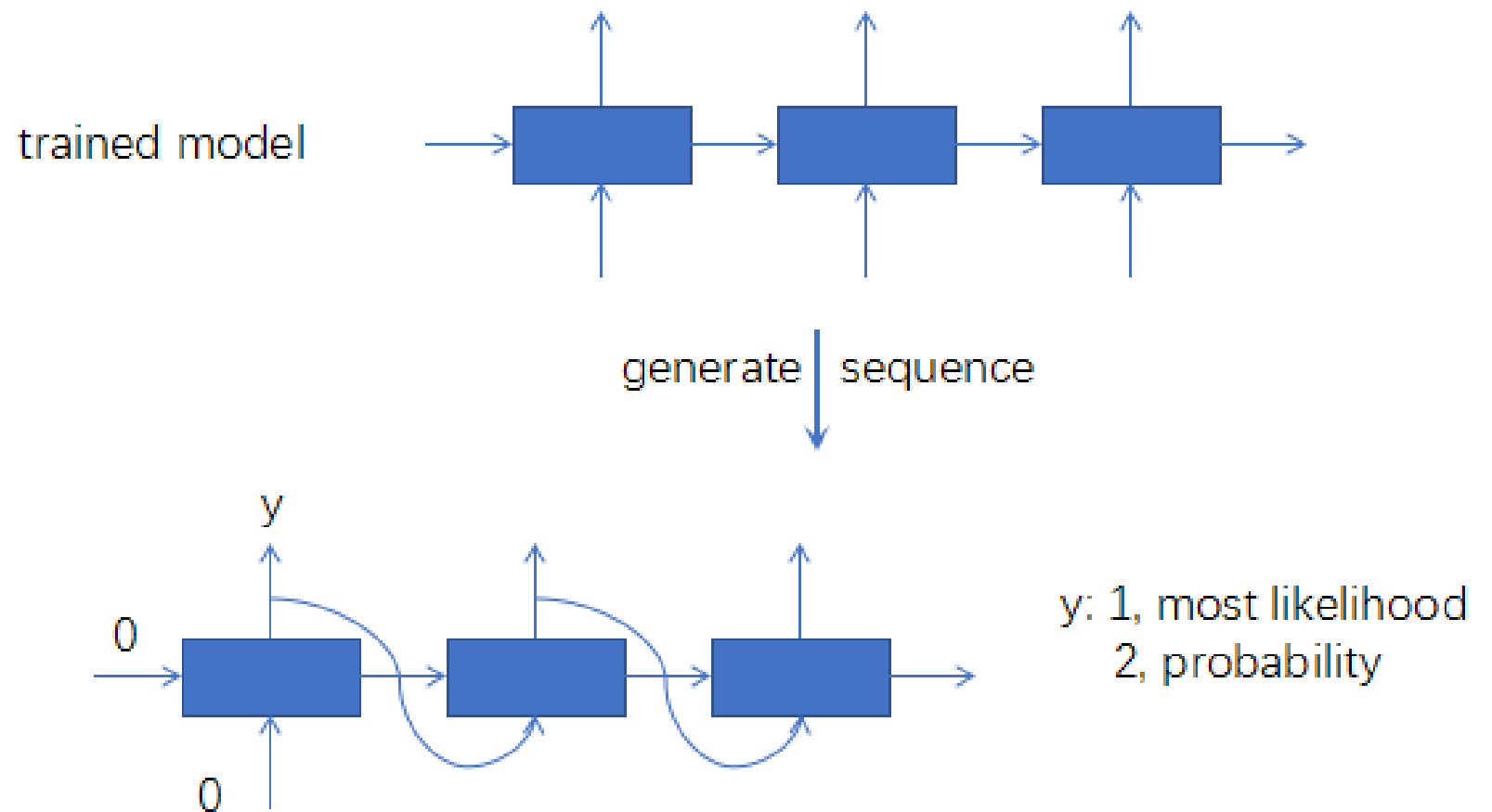
R-CNN algorithm



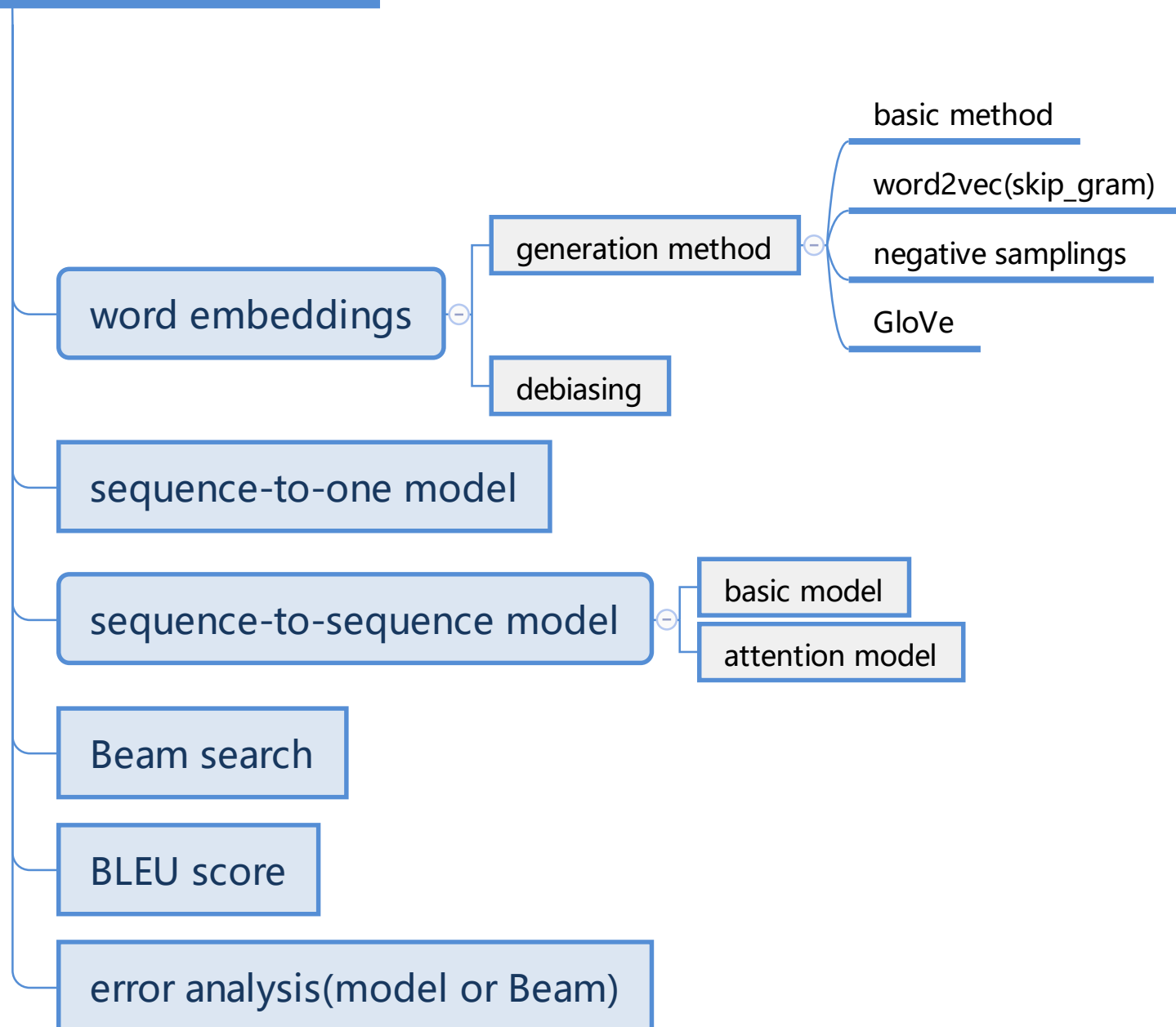
classifier



sequence generation 📄



machine translation



audio recognition 🎧

