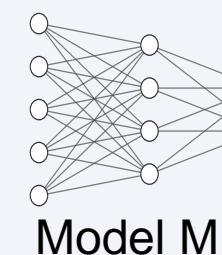


## Offline Phase

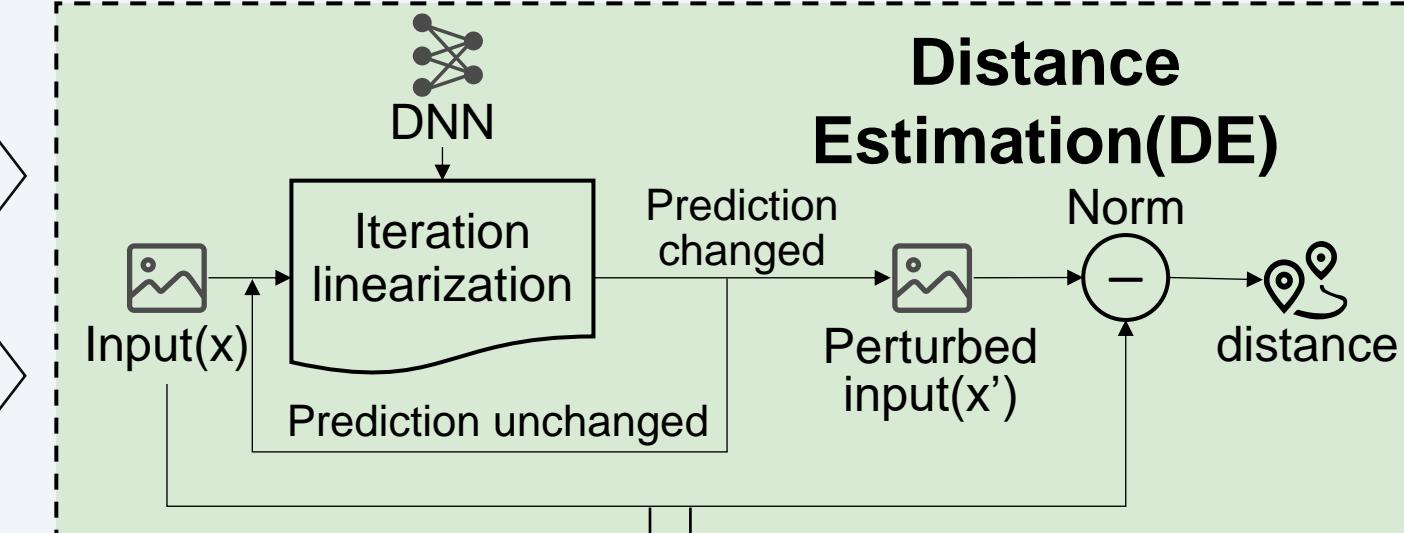
### Prior Knowledge Collection

Validation data Single Version



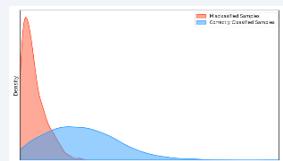
- Correctly classified set
- Wrongly classified set

## Distance Estimation(DE)



- correct distances
- wrong distances

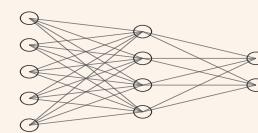
98%  
Val acc



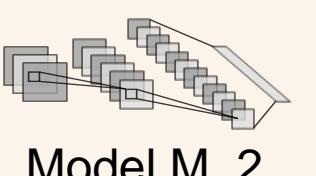
## Online Phase

### Failure-Prediction-Based

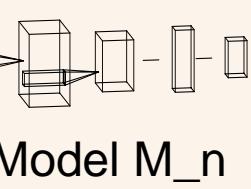
Diversity Versions



Model  $M_1$



Model  $M_2$



Model  $M_n$

Test Input



Prediction 1

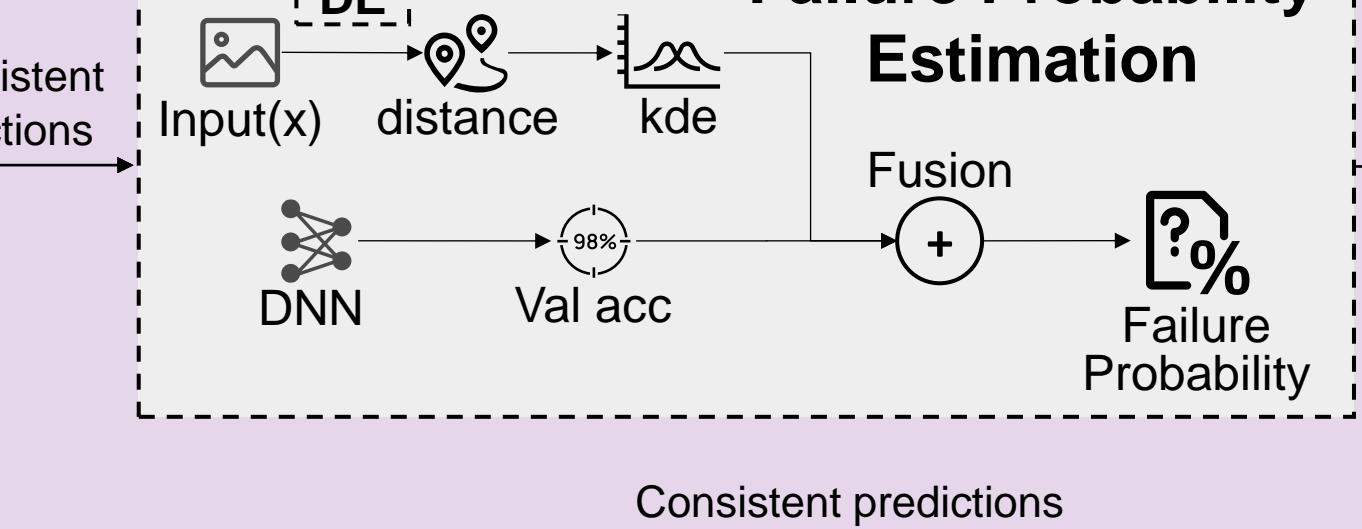
Prediction 2

Prediction N

Inconsistent predictions

## Decision Making

## Failure Probability Estimation



Consistent predictions

Output Prediction

?% Failure Probability