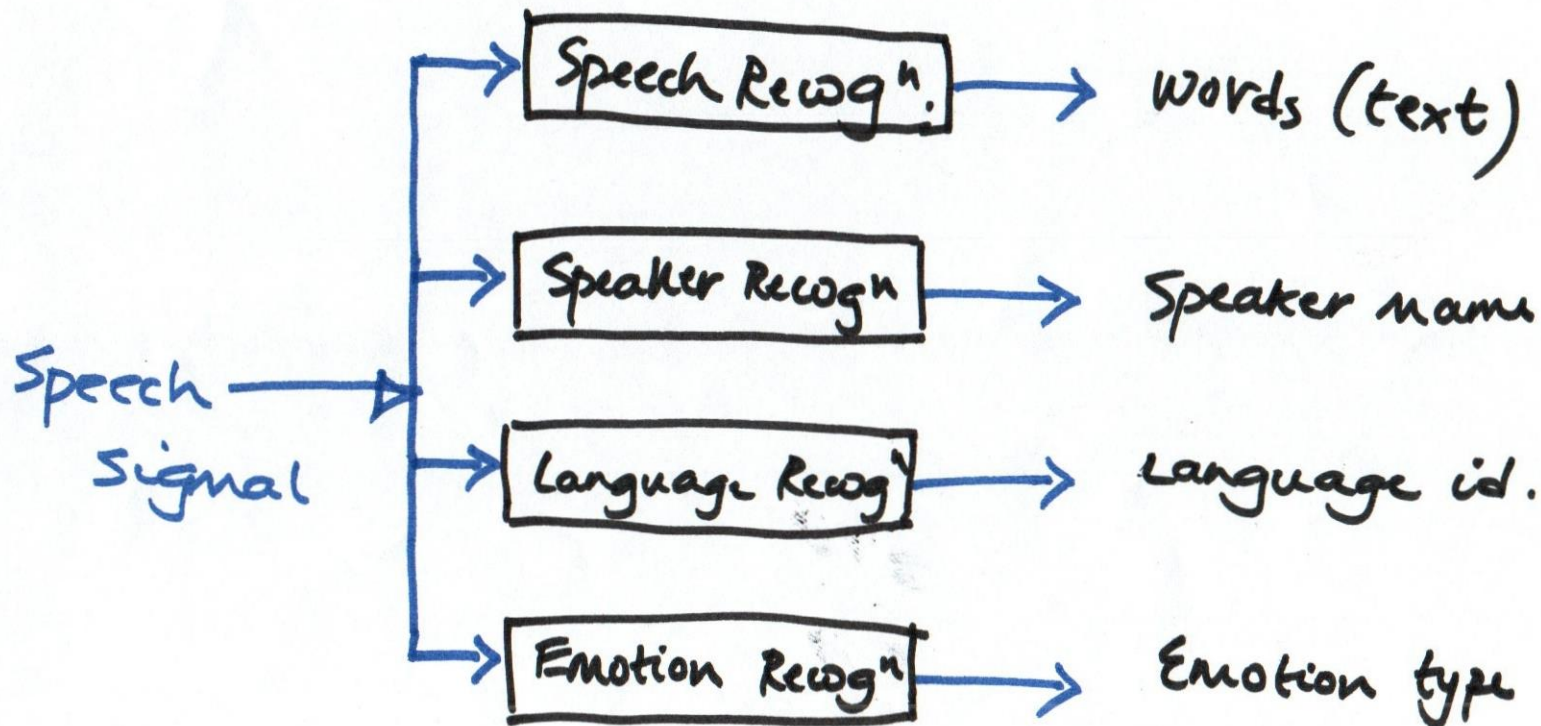


Speech : "Information" Extraction

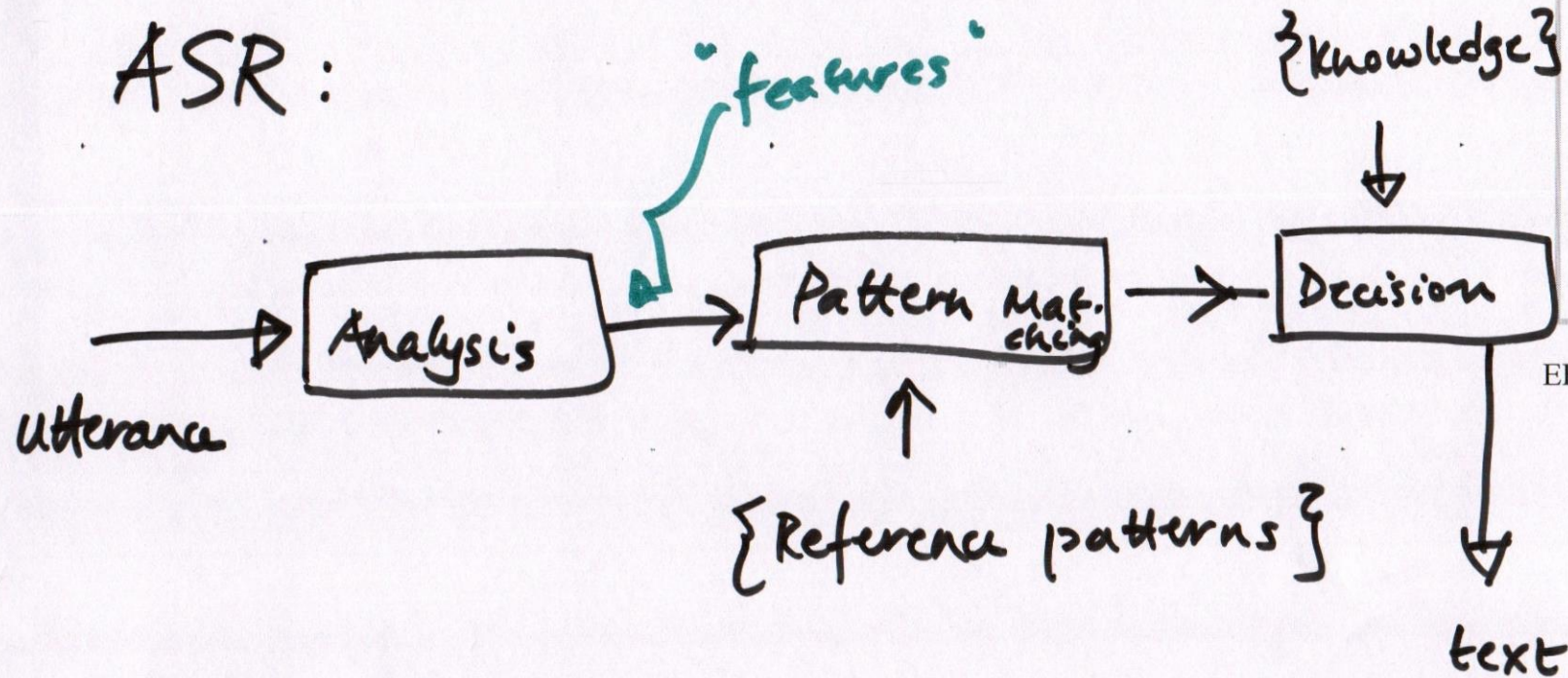


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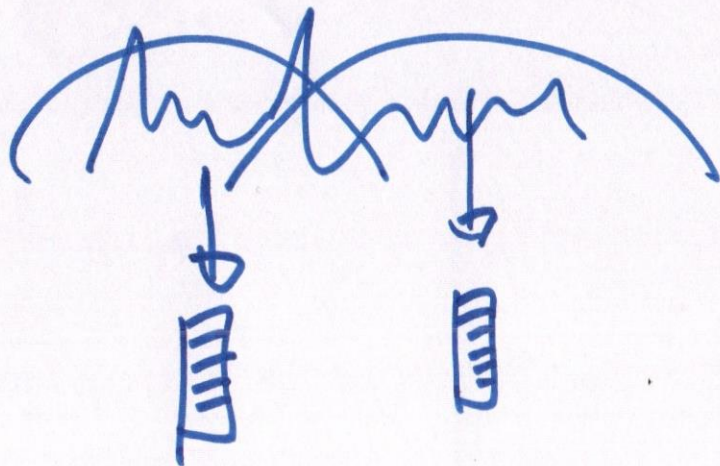


ASR:



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Feature design:

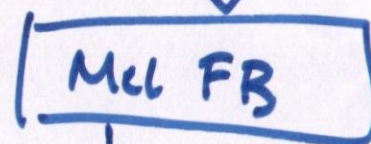
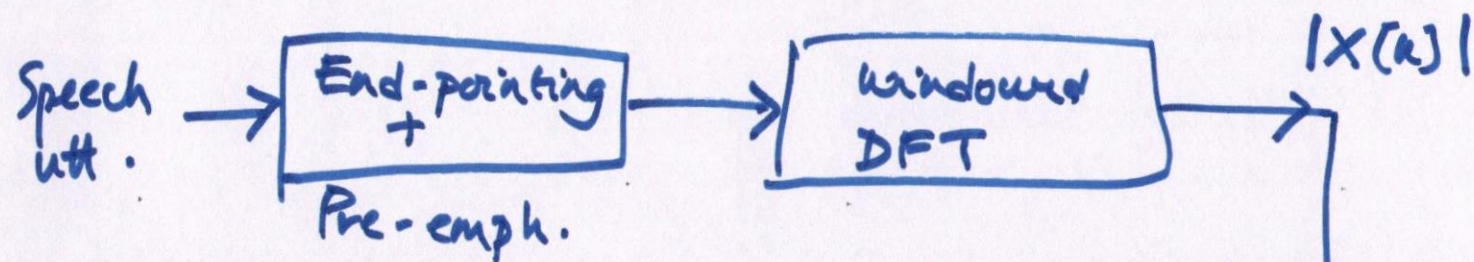
- invariant to irrelevancies
- good discriminative power
- uncorrelated to other features
- good distance measure

⇒ **Cepstral coeffs (low order)**



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$\sim N/2$

$Y_m, m=0 \dots 19 \rightarrow Y_m = \sum_{k=0}^{511} W_m[k] |X(k)|$

MFCC

c_0, c_1, \dots, c_{19}

