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Abstract

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Algorithm 1 Framework of ensemble learning for our system.

Input: The set of positive samples for current batch, P_n; The set of unlabelled samples for current batch, U_n; Ensemble of classifiers on former batches, E_{n-1};

Output: Ensemble of classifiers on the current batch, E_n;

  1: Extracting the set of reliable negative and/or positive samples T_n from U_n with help of P_n;

  2: Training ensemble of classifiers E on $T_n \cup P_n$, with help of data in former batches;

  3: $E_n = E_{n-1} cup E$;

  4: Classifying samples in $U_n - T_n$ by E_n;

  5: Deleting some weak classifiers in E_n so as to keep the capacity of E_n;

  6: **return** E_n;