Algorithm 1 Selection of knowledge injection phase with ranking of suitable ML

Input: Type of use case and available knowledge form

Output: Phase suitable to inject domain knowledge and raking of ML models

function GETPHASES($Usecase, Knowledgeform$) ▷ Return suitable injection phases based on the input
  Conversion, C=$c_1, c_2, ..., c_n$ where $C \in (Usecase \cap Knowledgeform)$
  for each $c_i \in C$ **do**
    for each $Phase \in c_i$ **do**
      if *Phase* not in $InjectionList$ **then**
        $InjectionList$.add(*Phase*)
      end if
    end for
  end for
  return $InjectionList$
end function
function RANKMLMODELS($Usecase, InjectionList$) ▷ Return top 5 suitable ML model with corresponding ranking
  for each $Phase \in InjectionList$ **do**
    for each unique $u_i \in Usecase$ **do**
      for each $m_i \in Models$ **do**
        if m_i is $mostsuitable$ **then** ▷ if the model provides best result among other experimented models for any use case
          score $S \leftarrow highscore$
        else
          score $S \leftarrow defaultscore$ ▷ if the model is applied in the use case
        end if
        if $m_i \in MLlist$ **then**
          $m_iScore \leftarrow m_iScore + S$
        else
          $MLlist$.add(m_i)
          $m_iScore \leftarrow S$
        end if
      end for
    end for
  end for
  $MLlist$.sort(m_iScore) ▷ Sort MLlist according to corresponding scores
  return Top 5 ML models with m_iScore
end function