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FUNCTION_BLOCK sentiment
                          // Block definition (there may be more than one block per file)
VAR INPUT
                        // Define input variables
   autor_reputation : REAL;
   padroes : REAL;
                                   // sugestão: Média quant_padroes/tamanho_comment
       corretude: REAL;
END VAR
VAR_OUTPUT
                       // Define output variable
   importancia : REAL;
END_VAR
FUZZIFY autor_reputation
                           // Fuzzify input variable 'autor_reputation': {'poor',
'good' , 'excellent'}
   TERM poor := (0, 1) (4, 0);
   TERM good := (1, 0) (4,1) (6,1) (9,0);
   TERM excellent := (6, 0) (9, 1);
END_FUZZIFY
FUZZIFY padroes
                       // Fuzzify input variable 'padroes': { 'baixo','medio','alto' }
   TERM baixo := (0, 1) (10, 1) (20, 0);
   TERM medio := (15,0) (25,1) (30,1) (45,0);
        TERM alto := (40,0) (50,1);
END FUZZIFY
                            // Fuzzify input variable 'corretude': { 'baixo','medio','alto' }
FUZZIFY corretude
   TERM baixo := (0, 1) (30, 1) (45, 0);
   TERM medio := (35,0) (50,1) (70,1) (80,0);
       TERM alto := (75,0) (80,1) (100,1);
END_FUZZIFY
DEFUZZIFY importancia
                                // Defzzzify output variable 'importancia' : {'muito_baixa',
'baixa', 'media', 'alta', 'muito_alta' }
   TERM muito_baixa := (0,0) (5,1) (10,0);
       TERM baixa := (10,0) (15,1) (20,0);
   TERM media := (20,0) (25,1) (30,0);
   TERM alta := (30,0) (35,1) (40,0);
       TERM muito_alta := (40,0) (45,1);
   METHOD : COG;
                       // Use 'Center Of Gravity' defuzzification method
   DEFAULT := 0;
                        // Default value is 0 (if no rule activates defuzzifier)
END_DEFUZZIFY
RULEBLOCK No1
   AND : MIN;
                       // Use 'min' for 'and' (also implicit use 'max' for 'or' to fulfill
   DeMorgan's Law)
   ACT : MIN;
                       // Use 'min' activation method
                        // Use 'max' accumulation method
   ACCU : MAX;
   RULE 1: IF autor_reputation IS poor AND padroes IS baixo AND corretude IS baixo THEN
    importancia IS muito_baixa;
   RULE 2 : IF autor_reputation IS poor AND padroes IS baixo AND corretude IS medio THEN
    importancia IS baixa;
    RULE 3 : IF autor_reputation IS poor AND padroes IS baixo AND corretude IS alto THEN
    importancia IS baixa;
   RULE 4: IF autor_reputation IS poor AND padroes IS medio AND corretude IS baixo THEN
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- importancia IS baixa;
- RULE 5 : IF autor\_reputation IS poor AND padroes IS medio AND corretude IS medio THEN importancia IS media;
- RULE 6 : IF autor\_reputation IS poor AND padroes IS medio AND corretude IS alto THEN importancia IS media;
- RULE 7 : IF autor\_reputation IS poor AND padroes IS alto AND corretude IS baixo THEN importancia IS alta;
- RULE 8 : IF autor\_reputation IS poor AND padroes IS alto AND corretude IS medio THEN importancia IS alta;
- RULE 9 : IF autor\_reputation IS poor AND padroes IS alto AND corretude IS alto THEN importancia IS alta;
  - RULE 10: IF autor\_reputation IS good AND padroes IS baixo AND corretude IS baixo THEN importancia IS baixa;
- RULE 11: IF autor\_reputation IS good AND padroes IS baixo AND corretude IS medio THEN importancia IS baixa;
- RULE 12: IF autor\_reputation IS good AND padroes IS baixo AND corretude IS alto THEN importancia IS baixa;
- RULE 13 : IF autor\_reputation IS good AND padroes IS medio AND corretude IS baixo THEN importancia IS baixa;
- RULE 14 : IF autor\_reputation IS good AND padroes IS medio AND corretude IS medio THEN importancia IS media;
- RULE 15 : IF autor\_reputation IS good AND padroes IS medio AND corretude IS alto THEN importancia IS media;
- RULE 16: IF autor\_reputation IS good AND padroes IS alto AND corretude IS baixo THEN importancia IS alta;
- RULE 17: IF autor\_reputation IS good AND padroes IS alto AND corretude IS medio THEN importancia IS alta;
- RULE 18: IF autor\_reputation IS good AND padroes IS alto AND corretude IS alto THEN importancia IS alta;
  - RULE 19: IF autor\_reputation IS excellent AND padroes IS baixo AND corretude IS baixo THEN importancia IS baixa;
- RULE 20 : IF autor\_reputation IS excellent AND padroes IS baixo AND corretude IS medio THEN importancia IS baixa;
- RULE 21: IF autor\_reputation IS excellent AND padroes IS baixo AND corretude IS alto THEN importancia IS media;
- RULE 22: IF autor\_reputation IS excellent AND padroes IS medio AND corretude IS baixo THEN importancia IS media;
- RULE 23 : IF autor\_reputation IS excellent AND padroes IS medio AND corretude IS medio THEN importancia IS alta;
- RULE 24 : IF autor\_reputation IS excellent AND padroes IS medio AND corretude IS alto THEN importancia IS alta;
- RULE 25 : IF autor\_reputation IS excellent AND padroes IS alto AND corretude IS baixo THEN importancia IS alta;
- RULE 26 : IF autor\_reputation IS excellent AND padroes IS alto AND corretude IS medio THEN importancia IS alta;
- RULE 27: IF autor\_reputation IS excellent AND padroes IS alto AND corretude IS alto THEN importancia IS muito\_alta;

END RULEBLOCK

END\_FUNCTION\_BLOCK