DA Phase 2 : Créations de modèles

Fichier existant: trainSet.csv Mouvement Genre Index Vacc Vacc ... Vacc Objectif du DA: - calculer les moyennes des varrAcc des 6 mouvements ⇒ trainSet.csv - calculer les moyennes des varrAcc par genre (6 modèles par genre) ⇒ fiModelMen.csv + fiModelWomen.csv Constantes: TRAIN_SET = "trainSet.csv" FI MODEL = "fiModel.csv" FI_MODEL_MEN = "fiModelMen.csv" FI MODEL WOMEN = "fiModelWomen.csv" LENGTH TITLE = 50 $NB_PATH = 15$ LG PATH = 10 $NB_FILES = 360$ NB DATA = 600Structures: paths[NBPATH][LGPATH] = {/*libellés des colonnes*/} sumAveragesMen[NB_DATA] sumAveragesWomen[NB DATA] nbValuesMen[NB_DATA] nbValuesWomen[NB_DATA] Creation of models -o ↓ error * Creation of models fopen_s(&pFiTrainSet, TRAIN_SET, "r") fopen_s(&pFiModel, FI_MODEL , "w") fopen_s(&pFiMen, FI_MODEL_MEN , "w") fopen_s(&pFiWomen, FI_MODEL_WOMEN , "w") if (pFiTrainSet AND pFiModel AND pFiMen AND pFiWomen) iLine = 1pFiTrainSet = se positionner sur la Line n° 1 de "trainSet.csv" title = Ligne n° iLine pFiTrainSet error = fgets(title,LENGTH TITLE, pFiTrainSet) sortir title error = fscanf s(pFiTrainSet, "%d", &mov.move) -o ↓ pFitrainSet, iLine | posLineTrainSet | o ↓ iLine, pFitrainSet = do while (!eof(pFiTrainSet))

movement = fscanf_s(pFiTrainSet, "%d", &mov.move)

currentMovement = movement

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sumAveragesMen[NB_DATA] = 0
 sumAveragesWomen[NB DATA] = 0
 nbValuesMen[NB_DATA] = 0
 nbValuesWomen[NB DATA] = 0
  = do while (!eof(pFiTrainSet) AND currentMovement == mov)
  genderNum = Ligne n° iLine, colonne n°2 dans "trainSet.csv"
                    -o ↓ pFitrainSet, iLine
  | posLineTrainSet |
                    -o ↓ iLine, pFitrainSet
  mov = fscanf s(pFiTrainSet, "%d", &mov.move)
   - if(genderNum == 0)
              ———o ↓ iLine, sumAveragesWomen, nbValuesWomen
   | lineProcessing |
                    -o ↓ sumAveragesWomen, nbValuesWomen
   0-
   - else
                   —o ↓ iLine, sumAveragesMen, nbValuesMen
   lineProcessing
                   -o ↓ sumAveragesMen, nbValuesMen
                    -o ↓ pFitrainSet, iLine
  posLineTrainSet
                    -o ↓ iLine, pFitrainSet
  movement = fscanf_s(pFiTrainSet, "%d", &mov.move)
  currentMovement = movement
             -o ↓ pFiWomen, sumAveragesWomen,nbValuesWomen,movement, pFiMen,
                 sumAveragesMen, nbValuesMen
  writeData
             -o ↓
fclose(pFiTrainSet)
fclose(pFiModel)
fclose(pFiMen)
fclose(pFiWomen)
sortir "ERREUR : l'un des fichier n'a pu s'ouvrir"
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-o ↓ iLine, sumAverages, nbValues
| lineProcessing |
                 -o ↓ sumAverages, nbValues
0-
  * lineProcessing
 // car le 1er Vacc commence à la 4ème colonne
 iRow = 4
  = do while (on est pas à la fin de la ligne en cours AND iRow < NB DATA)
  pFiTrainset = ligne n° iLine, colonne n° iRow
  sumAverages[iRow] += valeur pointée par pFiTrainset (iLine, iRow)
 nbValues[iRow]++
 iRow++
         ———o ↓ pFitrainSet, iLine
 posLineTrainSet
                 –o ↓ iLine, pFitrainSet
  - * posLineTrainSet
 iLine++
 pFiTrainSet = Ligne n° iLine dans "trainSet.csv"
          -o ↓ pFiWomen, sumAveragesWomen,nbValuesWomen,movement, pFiMen,
               sumAveragesMen,nbValuesMen
writeData
          -o ↓
  – * writeData
 fprintf(pFiModel)
 érire le mouvement dans pFiModel
            ----o ↓ pFiWomen, movement
 | writeGenderData |
         ----o ↓ pFiMen, movement
 | writeGenderData |
 iVacc = 0
 = do while (iVacc < NB_DATA)</pre>
 finalAverageWomen = sumAveragesWomen[iVacc]/nbValuesWomen[iVacc]
 écrire finalAverageWomen dans pFiWomen
 finalAverageMen = sumAveragesMen[iVacc]/nbValuesMen[iVacc]
  écrire finalAverageMen dans pFiMen
  totalAverage = (finalAverageWomen + finalAverageMen) / 2
  écrire totalAverage dans pFiModel
  iVacc++
```

```
o pFiGender, movement
| writeGenderData |
o o vertification o

* writeGenderData
fprintf(pFiGender)
écrire le movement dans pFiGender
```