Text

Description automatically generated with medium confidence

LOG3430 -Méthodes de test et de validation du logiciel

TP3 – Test d’intéractions

Groupe 1

Équipe 7

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Remis à :

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**Tailles des matrices MCA**

Selon le type d’interaction, on obtient les 3 matrices ci-dessous :

* CA(N, t, k, v) = CA(8, 2, 4, {2, 2, 2, 4}) 🡪 interactions doubles ;
* CA(N, t, k, v) = CA(16, 3, 4, {2, 2, 2, 4}) 🡪 interactions triples ;
* CA(N, t, k, v) = CA(32, 4, 4, {2, 2, 2, 4}) 🡪 interactions quadruples ;

**Analyse des résultats**

Pour les interactions doubles, nous obtenons les résultats suivants :

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Cas** | **log\_prob** | **log\_combine** | **vocab** | **clean\_opt** | **Accuracy** | **Precision** | **Recall** |
| 1 | TRUE | FALSE | 1 | 1 | 0.82 | 0.94 | 0.58 |
| 2 | FALSE | TRUE | 1 | 0 | 0.77 | 0.88 | 0.47 |
| 3 | TRUE | TRUE | 2 | 1 | 0.8 | 0.76 | 0.68 |
| 4 | FALSE | FALSE | 2 | 0 | 0.72 | 0.69 | 0.49 |
| 5 | TRUE | TRUE | 3 | 0 | 0.68 | 0.59 | 0.51 |
| 6 | FALSE | FALSE | 3 | 1 | 0.73 | 0.64 | 0.69 |
| 7 | TRUE | TRUE | 4 | 0 | 0.59 | 0.48 | 0.51 |
| 8 | FALSE | FALSE | 4 | 1 | 0.67 | 0.55 | 0.69 |

Pour l’interaction triple, nous obtenons les résultats suivants :

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Cas** | **log\_prob** | **log\_combine** | **vocab** | **clean\_opt** | **Accuracy** | **Precision** | **Recall** |
| 1 | TRUE | TRUE | 1 | 0 | 0.77 | 0.88 | 0.47 |
| 2 | TRUE | FALSE | 1 | 1 | 0.82 | 0.94 | 0.58 |
| 3 | FALSE | TRUE | 1 | 1 | 0.82 | 0.94 | 0.58 |
| 4 | FALSE | FALSE | 1 | 0 | 0.77 | 0.88 | 0.47 |
| 5 | TRUE | TRUE | 2 | 1 | 0.8 | 0.76 | 0.68 |
| 6 | TRUE | FALSE | 2 | 0 | 0.72 | 0.69 | 0.49 |
| 7 | FALSE | TRUE | 2 | 0 | 0.72 | 0.69 | 0.49 |
| 8 | FALSE | FALSE | 2 | 1 | 0.8 | 0.76 | 0.68 |
| 9 | TRUE | TRUE | 3 | 0 | 0.68 | 0.59 | 0.51 |
| 10 | TRUE | FALSE | 3 | 1 | 0.73 | 0.64 | 0.69 |
| 11 | FALSE | TRUE | 3 | 1 | 0.73 | 0.64 | 0.69 |
| 12 | FALSE | FALSE | 3 | 0 | 0.68 | 0.59 | 0.51 |
| 13 | TRUE | TRUE | 4 | 0 | 0.59 | 0.48 | 0.51 |
| 14 | TRUE | FALSE | 4 | 1 | 0.67 | 0.55 | 0.69 |
| 15 | FALSE | TRUE | 4 | 1 | 0.67 | 0.55 | 0.69 |
| 16 | FALSE | FALSE | 4 | 0 | 0.59 | 0.48 | 0.51 |

Pour les interactions quadruples, nous obtenons les résultats suivants :

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Cas** | **log\_prob** | **log\_combine** | **vocab** | **clean\_opt** | **Accuracy** | **Precision** | **Recall** |
| 1 | TRUE | TRUE | 1 | 0 | 0.77 | 0.88 | 0.47 |
| 2 | TRUE | TRUE | 1 | 1 | 0.82 | 0.94 | 0.58 |
| 3 | TRUE | FALSE | 1 | 0 | 0.77 | 0.88 | 0.47 |
| 4 | TRUE | FALSE | 1 | 1 | 0.82 | 0.94 | 0.58 |
| 5 | FALSE | TRUE | 1 | 0 | 0.77 | 0.88 | 0.47 |
| 6 | FALSE | TRUE | 1 | 1 | 0.82 | 0.94 | 0.58 |
| 7 | FALSE | FALSE | 1 | 0 | 0.77 | 0.88 | 0.47 |
| 8 | FALSE | FALSE | 1 | 1 | 0.82 | 0.94 | 0.58 |
| 9 | TRUE | TRUE | 2 | 0 | 0.72 | 0.69 | 0.49 |
| 10 | TRUE | TRUE | 2 | 1 | 0.8 | 0.76 | 0.68 |
| 11 | TRUE | FALSE | 2 | 0 | 0.72 | 0.69 | 0.49 |
| 12 | TRUE | FALSE | 2 | 1 | 0.8 | 0.76 | 0.68 |
| 13 | FALSE | TRUE | 2 | 0 | 0.72 | 0.69 | 0.49 |
| 14 | FALSE | TRUE | 2 | 1 | 0.8 | 0.76 | 0.68 |
| 15 | FALSE | FALSE | 2 | 0 | 0.72 | 0.69 | 0.49 |
| 16 | FALSE | FALSE | 2 | 1 | 0.8 | 0.76 | 0.68 |
| 17 | TRUE | TRUE | 3 | 0 | 0.68 | 0.59 | 0.51 |
| 18 | TRUE | TRUE | 3 | 1 | 0.73 | 0.64 | 0.69 |
| 19 | TRUE | FALSE | 3 | 0 | 0.68 | 0.59 | 0.51 |
| 20 | TRUE | FALSE | 3 | 1 | 0.73 | 0.64 | 0.69 |
| 21 | FALSE | TRUE | 3 | 0 | 0.68 | 0.59 | 0.51 |
| 22 | FALSE | TRUE | 3 | 1 | 0.73 | 0.64 | 0.69 |
| 23 | FALSE | FALSE | 3 | 0 | 0.68 | 0.59 | 0.51 |
| 24 | FALSE | FALSE | 3 | 1 | 0.73 | 0.64 | 0.69 |
| 25 | TRUE | TRUE | 4 | 0 | 0.59 | 0.48 | 0.51 |
| 26 | TRUE | TRUE | 4 | 1 | 0.67 | 0.55 | 0.69 |
| 27 | TRUE | FALSE | 4 | 0 | 0.59 | 0.48 | 0.51 |
| 28 | TRUE | FALSE | 4 | 1 | 0.67 | 0.55 | 0.69 |
| 29 | FALSE | TRUE | 4 | 0 | 0.59 | 0.48 | 0.51 |
| 30 | FALSE | TRUE | 4 | 1 | 0.67 | 0.55 | 0.69 |
| 31 | FALSE | FALSE | 4 | 0 | 0.59 | 0.48 | 0.51 |
| 32 | FALSE | FALSE | 4 | 1 | 0.67 | 0.55 | 0.69 |