**Table 1.** Exact match f1 scores, true positive, false positive, false negative values of entities, calculated by Spacy benchmark / evaluate command

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Model name** | **Entity name** | **Precision** | **Recall** | **F1-Score** | **Support** | **TP** | **FP** | **FN** |
| Spacy-transformer | ANAT | 0.86 | 0.88 | 0.87 | 3363 | 2964 | 464 | 399 |
| Gemini p 1.5 nshot | ANAT | 0.84 | 0.84 | 0.84 | 3363 | 2838 | 530 | 525 |
| Gemini p 2.5 nshot | ANAT | 0.78 | 0.83 | 0.81 | 3363 | 2805 | 762 | 558 |
| Gemini p 2.5 5shot | ANAT | 0.80 | 0.81 | 0.81 | 3363 | 2727 | 666 | 636 |
| Spacy-transformer | OBS-P | 0.86 | 0.88 | 0.87 | 3364 | 2950 | 467 | 414 |
| Gemini p 1.5 nshot | OBS-P | 0.83 | 0.84 | 0.84 | 3364 | 2852 | 578 | 512 |
| Gemini p 2.5 nshot | OBS-P | 0.82 | 0.80 | 0.81 | 3364 | 2681 | 585 | 683 |
| Gemini p 2.5 5shot | OBS-P | 0.77 | 0.74 | 0.75 | 3363 | 2490 | 746 | 874 |
| Spacy-transformer | OBS-A | 0.81 | 0.85 | 0.83 | 386 | 329 | 75 | 57 |
| Gemini p 1.5 nshot | OBS-A | 0.73 | 0.85 | 0.79 | 386 | 329 | 116 | 57 |
| Gemini p 2.5 nshot | OBS-A | 0.82 | 0.82 | 0.82 | 386 | 316 | 70 | 70 |
| Gemini p 2.5 5shot | OBS-A | 0.68 | 0.76 | 0.72 | 386 | 295 | 137 | 91 |
| Spacy-transformer | IMP | 0.72 | 0.71 | 0.71 | 922 | 653 | 253 | 269 |
| Gemini p 1.5 nshot | IMP | 0.74 | 0.68 | 0.71 | 922 | 630 | 217 | 292 |
| Gemini p 2.5 nshot | IMP | 0.71 | 0.72 | 0.71 | 922 | 662 | 271 | 260 |
| Gemini p 2.5 5shot | IMP | 0.65 | 0.68 | 0.66 | 922 | 624 | 342 | 298 |
| Spacy-transformer | OBS-U | 0.45 | 0.46 | 0.45 | 128 | 59 | 73 | 69 |
| Gemini p 1.5 nshot | OBS-U | 0.41 | 0.39 | 0.40 | 128 | 51 | 73 | 77 |
| Gemini p 2.5 nshot | OBS-U | 0.39 | 0.33 | 0.36 | 128 | 43 | 67 | 85 |
| Gemini p 2.5 5shot | OBS-U | 0.32 | 0.23 | 0.27 | 128 | 30 | 65 | 98 |

**Table 2.** Exact match precision, recall, f1 scores, accuracy, macro average and weighted average of models, calculated by Spacy benchmark / evaluate command.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Model name** | **Precision** | **Recall** | **F1-Score** | **Support** | **TP** | **FP** | **FN** |
| **Spacy-transformer** |  |  |  |  |  |  |  |
| Accuracy |  |  | 0.73 |  | 6955 | 1332 | 1208 |
| Macro Avg | 0.74 | 0.76 | 0.75 |  |  |  |  |
| Weighted Avg | 0.84 | 0.85 | 0.85 | 8163 |  |  |  |
| **Gemini p 1.5 nshot** |  |  |  |  |  |  |  |
| Accuracy |  |  | 0.69 | 8163 | 6700 | 1514 | 1463 |
| Macro Avg | 0.71 | 0.72 | 0.73 | 8163 |  |  |  |
| Weighted Avg | 0.81 | 0.82 | 0.82 | 8163 |  |  |  |
| **Gemini p 2.5 nshot** |  |  |  |  |  |  |  |
| Accuracy |  |  | 0.66 | 8163 | 6507 | 1755 | 1656 |
| Macro Avg | 0.70 | 0.70 | 0.70 |  |  |  |  |
| Weighted Avg | 0.79 | 0.79 | 0.79 | 8163 |  |  |  |
| **Gemini p 2.5 5shot** |  |  |  |  |  |  |  |
| Accuracy |  |  | 0.61 | 8163 | 6166 | 1956 | 1997 |
| Macro Avg | 0.64 | 0.64 | 0.64 |  |  |  |  |
| Weighted Avg | 0.76 | 0.76 | 0.76 | 8163 |  |  |  |