**SUMMARY OF FINDINGS REGARDING EXPERIMENTS WITH OM DATA AND**

**RNN LANGUAGE MODEL.**

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| **SL** | **Experiment Name** | **Notebook & Dataset URL** | **Samples Used** | **Result** | |
| 01 | Exp 1 Jan23 - Regular Dataset - Tokenization 1  6 OM Combined | Notebook:  <https://tinyurl.com/6om-exp1-reg-auth> | Total: 101  P Labeled : 15  NP Labeled: 86  (Unseen to the Model)  Inconsistent Result | First 40 predicted as P and after that incomplete statements.  No labels were appended after that | |
| Sample set:  <https://tinyurl.com/sampleset1-reg>  Dataset:  <https://tinyurl.com/dataset1-6OM-Reg-auth> |
| 02 | Exp 2 Jan23 - Regular Dataset - Tokenization 2  6 OM Combined | Notebook:  <https://tinyurl.com/6om-exp2-reg-auth> | Total: 101  P Labeled : 15  NP Labeled: 86  (Unseen to the Model) | Precision  100% | Recall  6.6% |
| Sample set:  <https://tinyurl.com/sampleset1-reg>  Dataset:  <https://tinyurl.com/dataset1-6OM-Reg-auth> | F1  12% | Accuracy  86% |
| 03 | Exp 3 Jan23 - Regular Dataset - Tokenization 3 –  6 OM combined | Notebook:  <https://tinyurl.com/6om-exp3-reg-auth> | Total: 101  P Labeled : 15  NP Labeled: 86  (Unseen to the Model) | Precision  2.5% | Recall  13% |
| Sample set:  <https://tinyurl.com/sampleset1-reg>  Dataset:  <https://tinyurl.com/dataset1-6OM-Reg-auth> | F1  2.09% | Accuracy  85% |
| 04 | Exp 4 Jan23 - Regular Dataset - Tokenization 4  6 OM combined | Notebook:  <https://tinyurl.com/6om-exp4-reg-auth> | Total: 101  P Labeled : 15  NP Labeled: 86  (Unseen to the Model) | Precision  13% | Recall  20% |
| Sample set:  <https://tinyurl.com/sampleset1-reg>  Dataset:  <https://tinyurl.com/dataset1-6OM-Reg-auth> | F1  15% | Accuracy  68% |
| 05 | Exp 5 Jan23 - Regular Dataset - Tokenization 5  6 OM combined | Notebook:  <https://tinyurl.com/6om-exp5-reg-auth> | Total: 101  P Labeled : 15  NP Labeled: 86  (Unseen to the Model) | Precision  10% | Recall  6.6% |
| Sample set:  <https://tinyurl.com/sampleset1-reg>  Dataset:  <https://tinyurl.com/dataset1-6OM-Reg-auth> | F1  7.9% | Accuracy  77% |
| 7 OM combined dataset experiments | | | | | |
| 06 | Exp 6 Jan23 - Regular Dataset - Tokenization 1  7 OM combined | Notebook:  <https://tinyurl.com/7-om-exp6-reg-auth> | Total: 101  P Labeled : 15  NP Labeled: 86  (Existing data / seen data) | Incomplete Statements | |
| Sample set:  <https://tinyurl.com/sampleset1-reg>  Dataset:  <https://tinyurl.com/7-om-reg-auth> |

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| 07 | Exp 7 Jan23 - Regular Dataset - Tokenization 2 –  7 OM combined | Notebook:  <https://tinyurl.com/7-om-exp7-reg-auth> | Total: 101  P Labeled : 15  NP Labeled: 86  (Existing data / seen data) | Precision  27% | Recall  60% |
| Sample set:  <https://tinyurl.com/sampleset1-reg>  Dataset:  <https://tinyurl.com/7-om-reg-auth> | F1  19% | Accuracy  70% |
| 08 | Exp 8 Jan23 - Regular Dataset - Tokenization 3  7 OM combined | Notebook:  <https://tinyurl.com/7-om-exp8-reg-auth> | Total: 101  P Labeled : 15  NP Labeled: 86  (Existing data / seen data) | Precision  32% | Recall  46% |
| Sample set:  <https://tinyurl.com/sampleset1-reg>  Dataset:  <https://tinyurl.com/7-om-reg-auth> | F1  38% | Accuracy  77% |
| 09 | Exp 9 Jan23 - Regular Dataset - Tokenization 4  7 OM combined | Notebook:  <https://tinyurl.com/7-om-exp9-reg-auth> | Total: 101  P Labeled : 15  NP Labeled: 31  (Existing data / seen data) | Precision  0% | Recall  0% |
| Sample set:  <https://tinyurl.com/sampleset1-reg>  Dataset:  <https://tinyurl.com/7-om-reg-auth> | F1  0% | Accuracy  85% |
| 10 | Exp 6 Jan23 - Regular Dataset - Tokenization 5  7 OM combined | Notebook:  <https://tinyurl.com/7-om-exp10-reg-auth> | Total: 101  P Labeled : 15  NP Labeled: 31  (Existing data / seen data) | Precision  100% | Recall  20% |
| Sample set:  <https://tinyurl.com/sampleset1-reg>  Dataset:  <https://tinyurl.com/7-om-reg-auth> | F1  33% | Accuracy  88% |

**RESULTS COMPARISON BETWEEN 6 OM AND 7 OM DATASETS BASED EXPERIMENTS.**

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| **6 OM Combined**  **(Unseen data)** | **6 OM based results** | | **7 OM Combined**  **(Trained on Existing)** | **7 OM based results** | |
| Exp 1 Jan23 - Regular Dataset - Tokenization 1 | Incomplete Statements | | Exp 6 Jan23 - Regular Dataset - Tokenization 1 | Incomplete Statements | |
| Exp 2 Jan23 - Regular Dataset - Tokenization 2 | Precision  100% | Recall  6.6% | Exp 7 Jan23 - Regular Dataset - Tokenization 2 | Precision  27%  (Reduction) | Recall  60%  (Increase) |
| F1  12% | Accuracy  86% | F1  19% (Increase) | Accuracy  70% (Increase) |
| Exp 3 Jan23 - Regular Dataset - Tokenization 3 | Precision  2.5% | Recall  13% | Exp 8 Jan23 - Regular Dataset - Tokenization 3 | Precision  32% (Increase) | Recall  46% (Increase) |
| F1  2.09% | Accuracy  85% | F1  38% (Increase) | Accuracy  77% (Reduction) |
| Exp 4 Jan23 - Regular Dataset - Tokenization 4 | Precision  13% | Recall  20% | Exp 9 Jan23 - Regular Dataset - Tokenization 4 | Precision  0% (Reduction) | Recall  0% (Reduction) |
| F1  15% | Accuracy  68% | F1  0% (Reduction) | Accuracy  85% (Increase) |
| Exp 5 Jan23 - Regular Dataset - Tokenization 5 | Precision  10% | Recall  6.6% | Exp 10 Jan23 - Regular Dataset - Tokenization 5 | Precision  100% (Increase) | Recall  20% (Increase) |
| F1  7.9% | Accuracy  77% | F1  33% (Increase) | Accuracy  88% (Increase) |