

Accuracy Results

Using Lemmatizer and POS

- Model with the highest accuracy: **SVM**
 - Accuracy: **0.82**
 - Accuracy: **0.87**
-

Using POS

- Model with the highest accuracy: **SVM**
 - Accuracy: **0.84**
 - Accuracy: **0.89**
-

Using Lemmatizer

- Model with the highest accuracy: **SVM**
 - Accuracy: **0.90**
 - Accuracy: **0.95**
-

Without POS and Lemmatizer

- Model with the highest accuracy: **SVM**
 - Accuracy: **0.91**
 - Accuracy: **0.95**
-

Summary

- The **SVM** model consistently outperformed other models across all configurations.
- The highest accuracy was achieved when **only lemmatizer** was used (**0.95**).

- Removing both POS and lemmatizer yielded equivalent results (**0.95**) to using the lemmatizer alone, suggesting that POS tagging had minimal impact on the SVM's performance.