Reddit NLP

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(ASKREDDIT VS. ASKSCIENCE)



1. Problem Statement

- 2. Methodology
- 3. Analysis
- 4. Conclusion

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Give targeted ads to users

Intro Problem Statement Methodology Analysis Conclusion

Give targeted ads to users Classify both users

Give targeted ads to users

Classify both users

Solution

Pre-trained classification models

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Intro Problem Statement Methodology Analysis Conclusion

Intro

1. Data Gathering w/ Pushshift

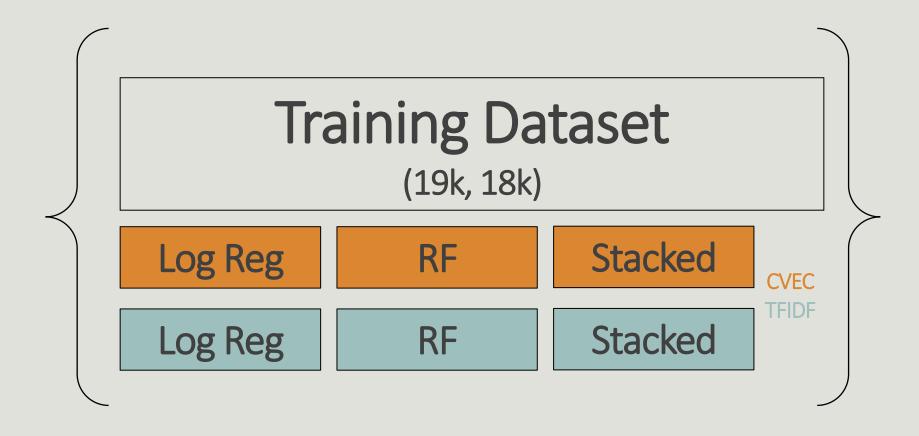
Problem Statement Methodology Analysis Conclusion

- 1. Data Gathering w/ Pushshift
- 2. Cleaning & EDA w/ Python

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- 3. NLP Modeling w/ CVEC & TFIDF

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- 2. Cleaning & EDA w/ Python
- 3. NLP Modeling w/ CVEC & TFIDF
- 4. Out-of-box Solution

Question: By how much?



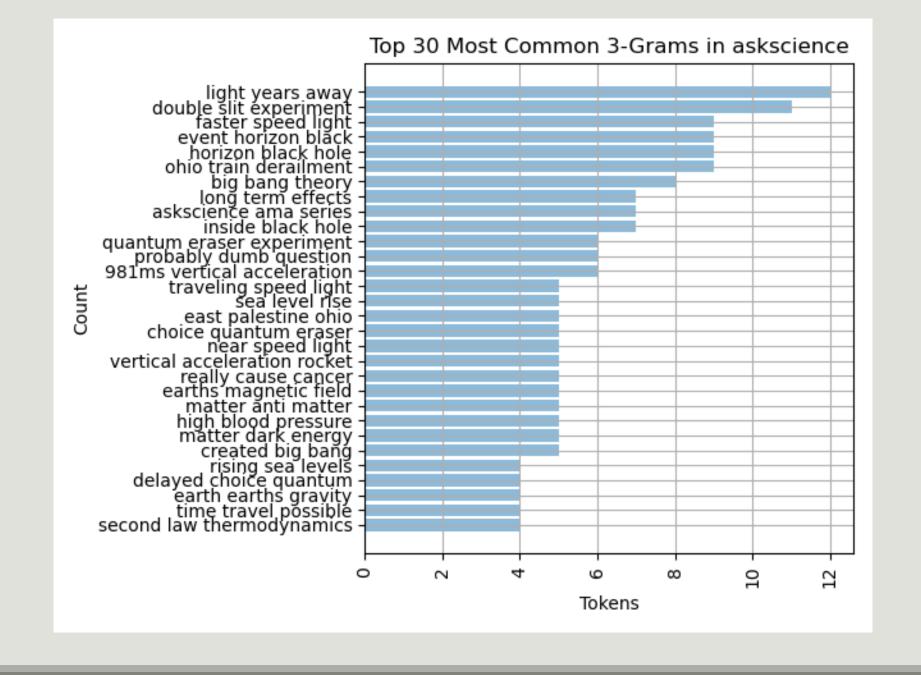
1. Problem Statement

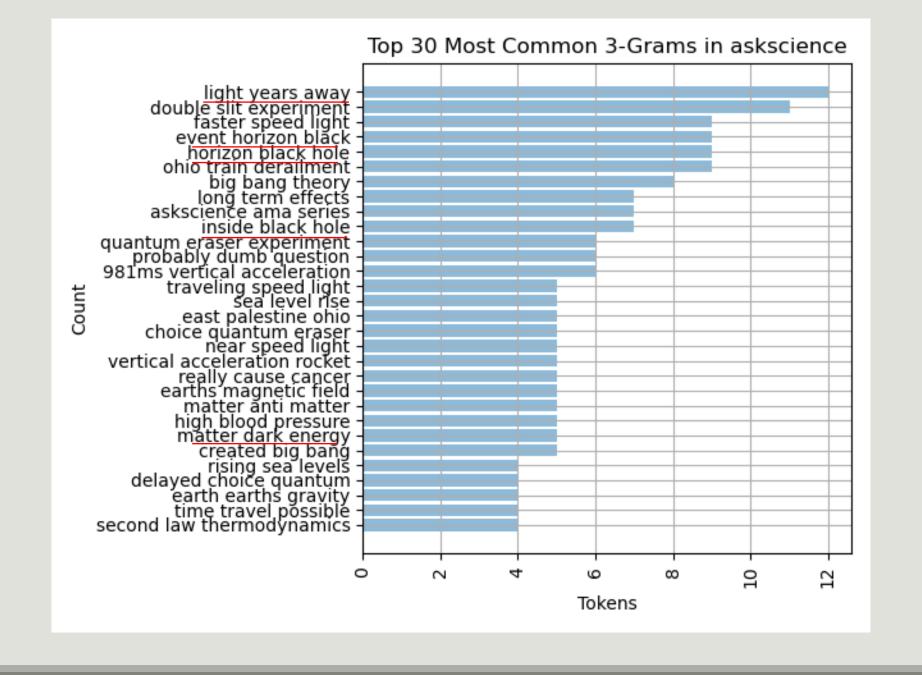
2. Methodology

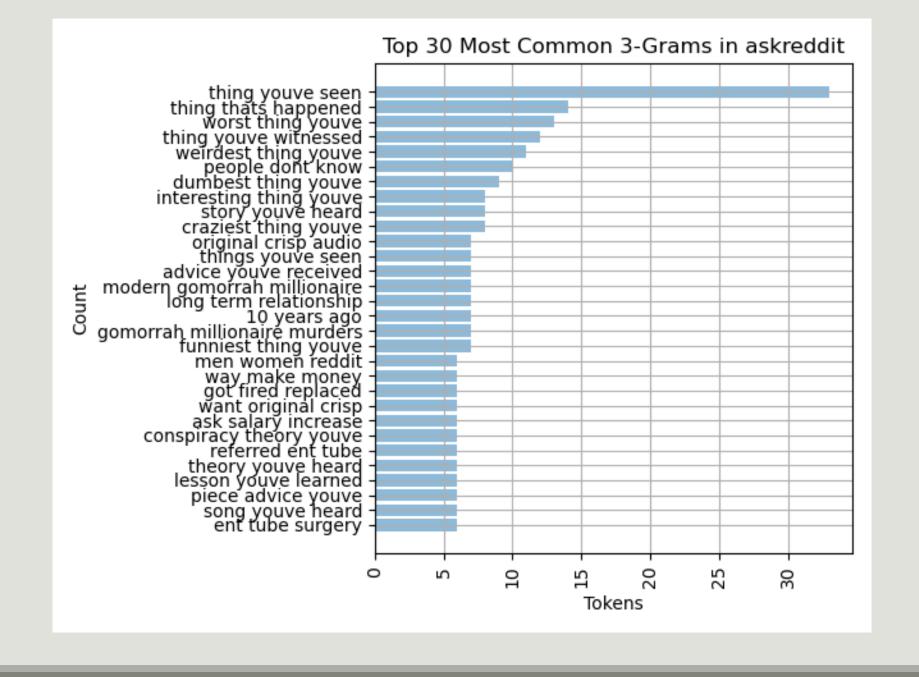
3. Analysis

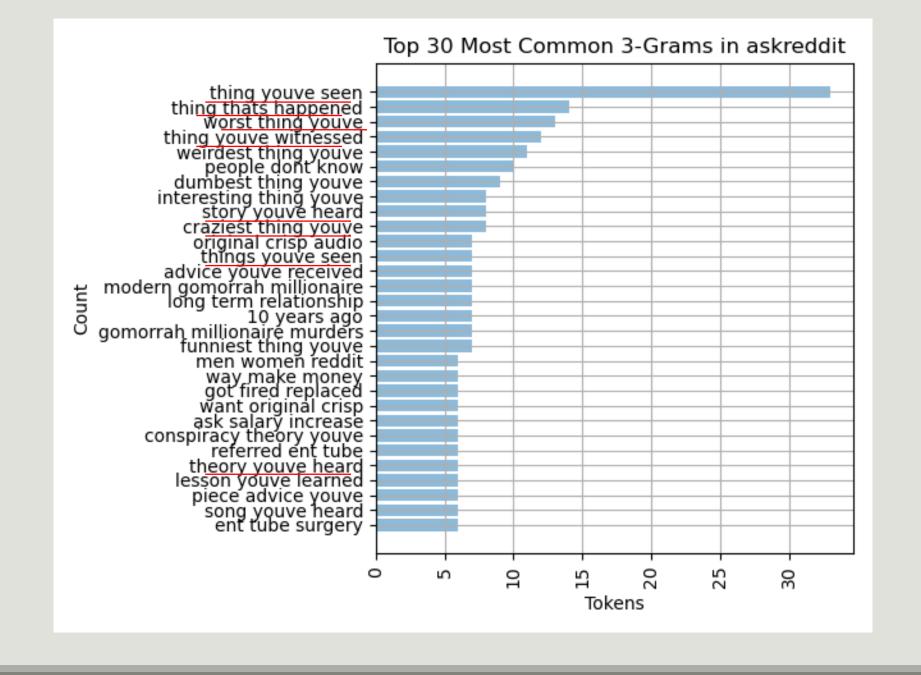
4. Conclusion

Classify both users equally



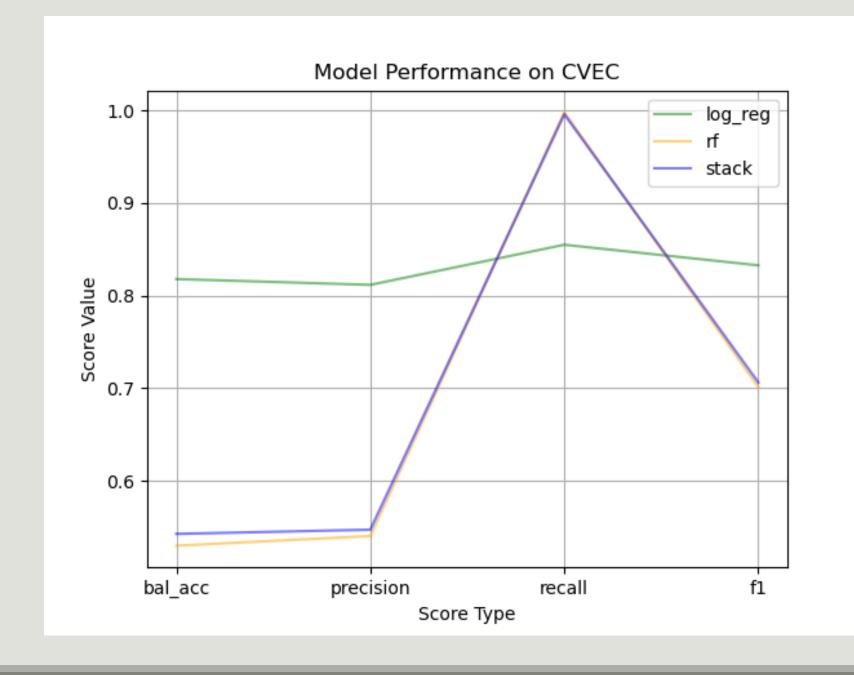


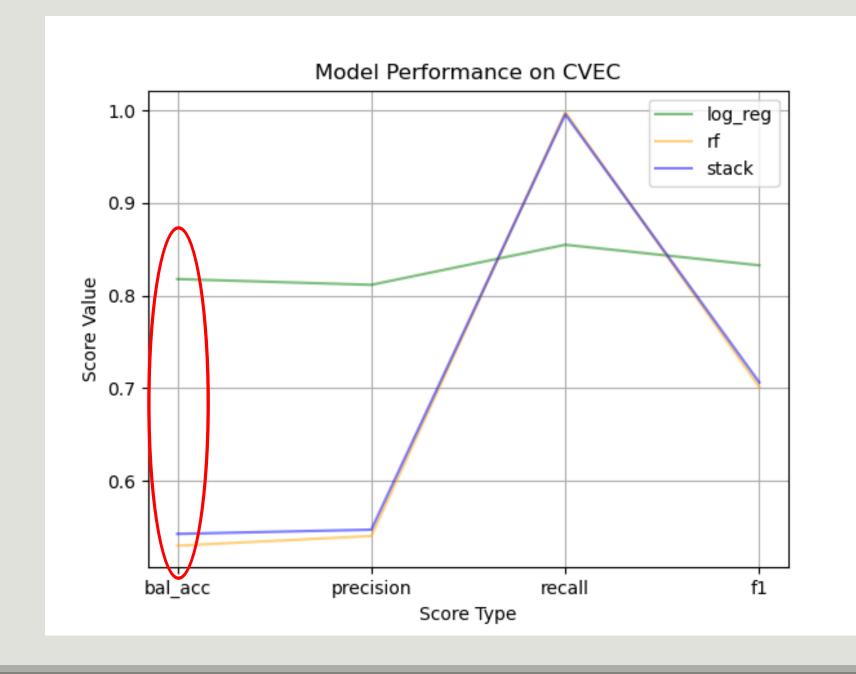


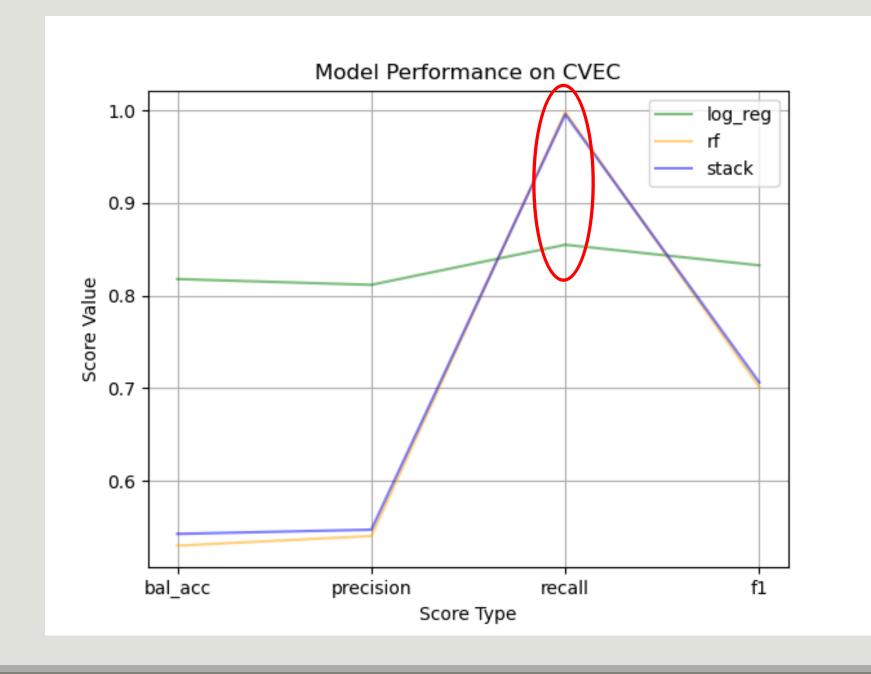


Solution

Pre-Trained Models







Conclusion

1. Problem Statement

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Recommendation

Intro Problem Statement Methodology Analysis Conclusion

Recommendation

Intro

Logistic regression @ 0.82 balanced accuracy

Problem Statement Methodology Analysis Conclusion

Recommendation

Logistic regression Random forest @ 0.82 balanced accuracy

Analysis

Conclusion

@ 0.98 recall

Intro Problem Statement Methodology Analysis Conclusion

- Data scrapping script

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- Cleaned data (25k)

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- Hyperparam tuning flexibility

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- Hyperparam tuning flexibility
- Score-preference flexibility

Executive Summary

This project can save you **time and money** by offering pre-trained models for your future NLP projects!

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Thank you!

QUESTIONS?

