

"Using stylometry to make your text anonymous"

The Team

- Leo Kavanagh
- Federico Cerrato
- Barry Scott
- Conor Moloney
- Sean O'Connor
- Ioannis
- Sebastian Ruder



Problem



In modern society, retaining anonymity is getting more important In recent years we have seen what happens when leaks are exposed

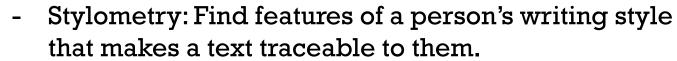




Currently no easy way to anonymise your text

Solution





- Use this to inform our predictive model



 Replace these distinguishable features, creating a more "bland" version of the text



- Ensure final output maintains same sentiment and meaning, but is not identifiable

How hard was it?

- VERY!

Did we solve it?

- Kind of

Applied AI

Machine Learning



Sentiment Analysis











- Supervised learning to classify input text by author.
- Output distinguishable phrases for authors

- Part of Speech tagging using NLTK
- Find synonyms using
 Word2Vec / TensorFlow

- Check accuracy
- Ensure sentiment remains close

DEMO

Impact



- Upward feedback within companies



- "Whistleblower" type situations



- Anonymous Reviews