

Final Report - Work in Progress

- Research Hypothesis / Questions:
 - Is Formula 1 fandom Toxic?
 - Are there specific groups that show more toxic behaviour then others?
 - Is the toxicity a “self-made” problem of Formula 1?
- APIs: Youtube
 - (Not reddit as post are often off topic especially during the off season, that we are currently in)
- Methods:
 - TBD
 - Dictionary
 - * Formula 1 specific words that are toxic
 - * racism / ethnic slurs -> (“List of Ethnic Slurs,” 2023)
 - * toxicity -> (Orthrus-Lexicon, 2022)
 - * hate speech -> (Vegt et al., 2021)
 - * insults -> (Vegt et al., 2021)
 - Transformer classifier
 - * sentiment -> cardiffnlp/twitter-roberta-base-sentiment-latest (Barbieri et al., 2020)
 - * racism -> jaumefib/datathon-against-racism (Aluru et al., 2020)
 - * hate speech -> Hate-speech-CNERG/dehatebert-mono-english (*Jaumefib/Datathon-Against-Racism* · *Hugging Face*, n.d.)
 - statistical analysis
 - * group toxic behavior by drivers and teams
 - * group by topics
 - topic modelling?
- Contents:
 - Introduction
 - * What is Formula 1
 - * Why do we need to analyze this
 - * introduce the three research questions / hypothesis
 - Fundamentals
 - * What is fandom
 - * Defining toxic fan behavior
 - * Youtube API
 - * Maybe explaining the used methods?
 - Concept
 - * What will be done
 - * How will i be doing it
 - Creating the Dataset
 - * Explain Dataset creation
 - Applying Method 1
 - Applying Method 2
 - Results

```
import pandas as pd
```

““

- Aluru, S. S., Mathew, B., Saha, P., & Mukherjee, A. (2020). *Deep Learning Models for Multilingual Hate Speech Detection*. arXiv. <https://doi.org/10.48550/arXiv.2004.06465>
- Barbieri, F., Camacho-Collados, J., Neves, L., & Espinosa-Anke, L. (2020). *TweetEval: Unified Benchmark and Comparative Evaluation for Tweet Classification*. arXiv. <http://arxiv.org/abs/2010.12421>
- Jaumefib/datathon-against-racism · Hugging Face. (n.d.). Retrieved January 9, 2023, from <https://huggingface.co/jaumefib/datathon-against-racism>
- List of ethnic slurs. (2023). In *Wikipedia*. https://en.wikipedia.org/w/index.php?title=List_of_ethnic_slurs&oldid=1132041045
- Orthrus-Lexicon. (2022). *Orthrus Toxic Dictionary implementation*. <https://github.com/Orthrus-Lexicon/Toxic>
- Vegt, I. van der, Mozes, M., Kleinberg, B., & Gill, P. (2021). The Grievance Dictionary: Understanding threatening language use. *Behavior Research Methods*, 53(5), 2105–2119. <https://doi.org/10.3758/s13428-021-01536-2>