# The Language of Reddit

By Charles Crocicchia

# Background on the Problem

I work for a linguistic research team whose goal is to visualize patterns or trends in the rapidly developing language of the online world.

### **Subreddits**

### r/Showerthoughts

A forum where people voice their realizations or epiphanies that they have discovered independently of academic/scientific research.

### r/philosophy

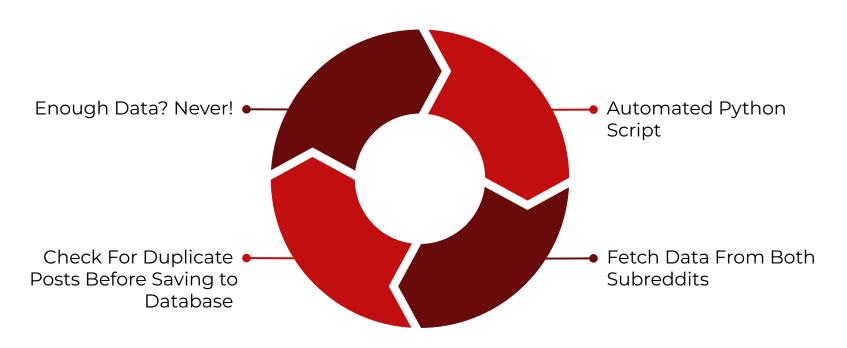
Where people share and discuss morals, ethics, and social observations made by prominent figures in the philosophical research community.

# **Our Question**

Is there a difference between our own self-made observations and those made by established philosophers?

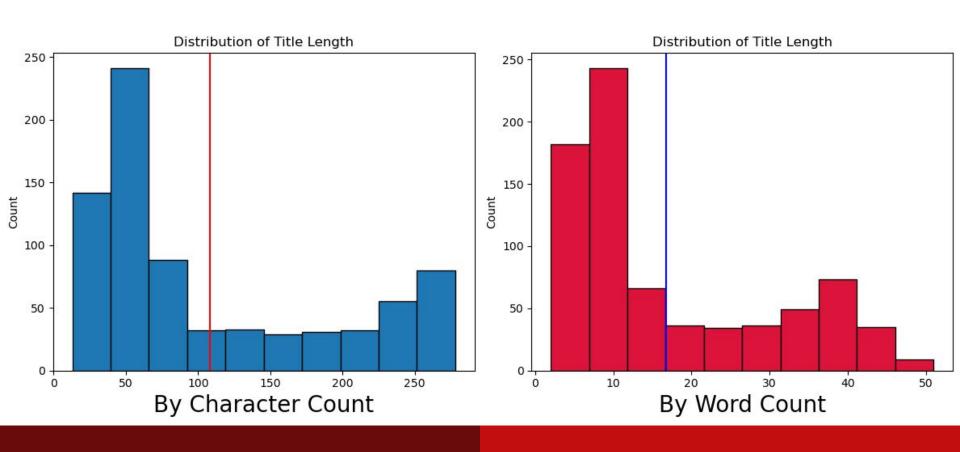
# O1 Data Collection

### **My Process**

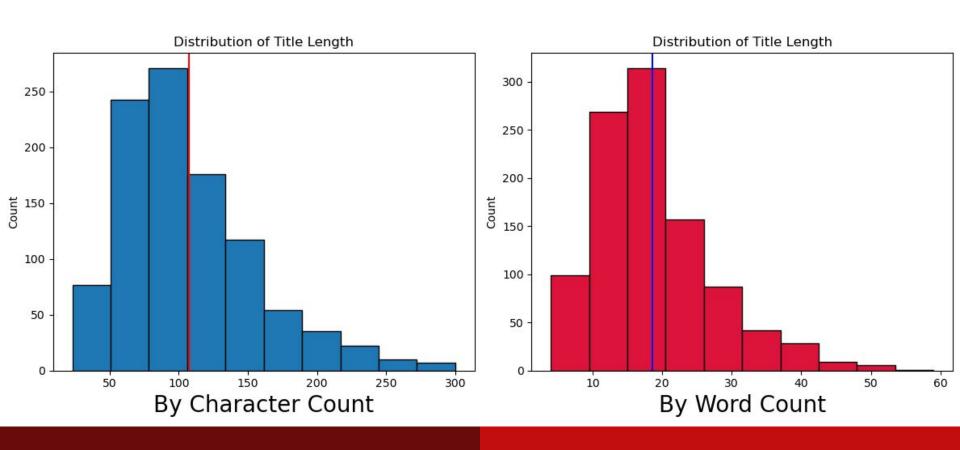


# Data Analysis

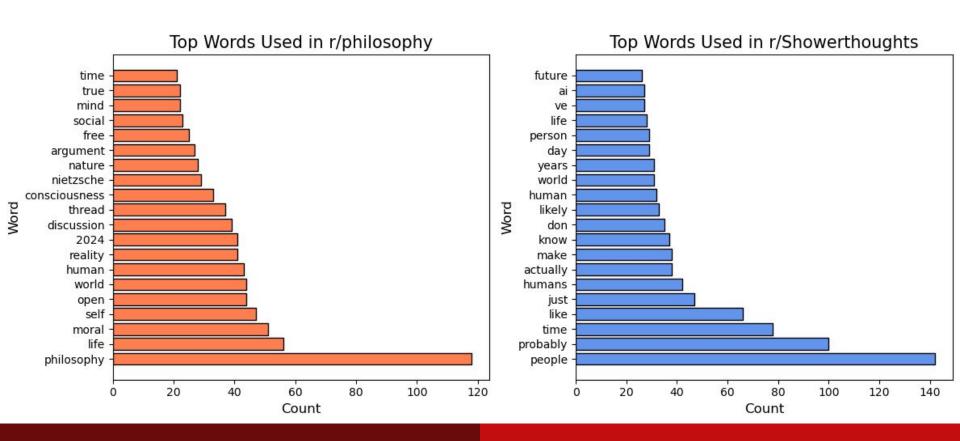
# r/philosophy



# r/Showerthoughts



# **Comparing Subreddits**



# 03 Modelling

## Methodology

### **Baseline Accuracy**

**57%** 

#### **Evaluation Metrics**

- Accuracy
- Bias/Variance

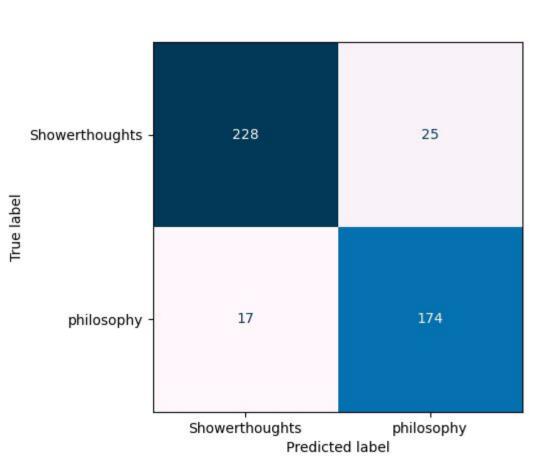
#### Models

- Logistic Regression
- Random Forest
- Naive Bayes

#### **Trial and Error**

- Tuning Parameters
- Additional EDA

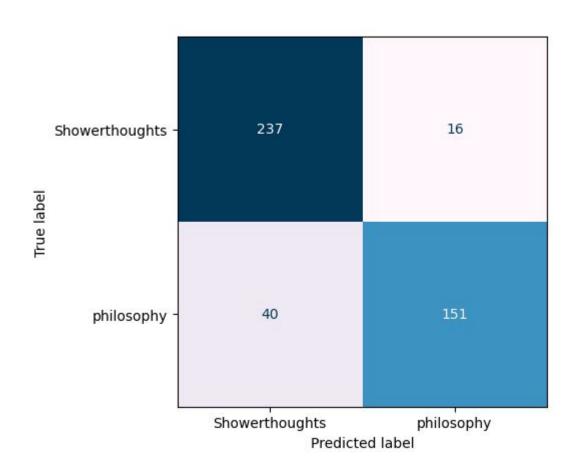
### **Logistic Regression**



Training Accuracy 99.8%

Testing Accuracy 90.5%

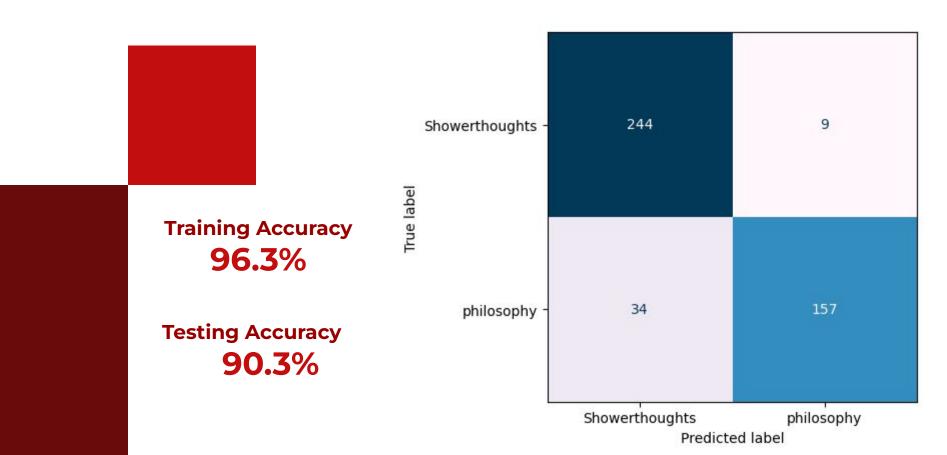
### **Random Forest**



Training Accuracy 99.8%

Testing Accuracy **87.3**%

## **Naive Bayes**



### Comparison



### Conclusion

**Data Collection** 01 and Model Results

**Revisiting the** Problem Statement

03

**Next Steps** 

Thank You!