

## **Text Mining for Social Sciences**

Nandan Rao April, 2019



### **Social Sciences and Text Mining**

This is hot stuff.

Some examples:



#### **Social Sciences - Missing Migrants**



Missing Migrants Project tracks incidents involving migrants, including refugees and asylumseekers, who have died or gone missing in the process of migration towards an international destination

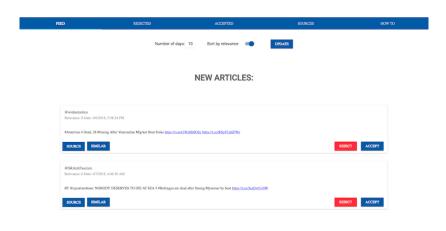


#### **Social Sciences - Missing Migrants**

- The Missing Migrants project is essentially one of dataset creation.
- These statistics are not available from any single state.
- News agencies report the events. In plain text!



#### **Social Sciences - Missing Migrants**





#### Social Sciences - OECD & Freelance Labor Markets

What is the effect of the explosion of freelancing websites on the labor market? Demand side:

- "I need an experienced Business Strategist who can write content explaining all the important moving parts and pieces of building a business plan and/or business model. You'll be explaining to first time entrepreneurs and small business owners and diving into the importance"
- "We are Ricardo Steak House Restaurant located in Harlem, New York. We are looking for an expert opinion and training on how to manage our accounting department"
- "We are an 8Mil per year trucking company based out of NJ.
   Due to negative loss-runs, we lost ideal market coverage for insurance and forced to use Progressive Commercial. We need someone with both an accounting background and deep knowledge of commercial insurance..."



#### Social Sciences - OECD & AI

How can we measure the growing share of artificial intelligence in worldwide innovation?

Corpora: Github, Patents.

One-class classification

Keep classification fixed, improve embedding.



#### Social Sciences - Warwick & Online Labor Markets

How can we use online labor markets as a realtime view on shifts in jobs and skills demanded?



# Social Sciences - Warwick & Wages + Tasks

How do the returns to tasks change over time?

What are tasks? Created manually? Extract from text?

