Unit 7: Data Annotation Human coding

Lesson 50

Derek Ruths

Overview of unit

Objectives:

- Understand how to approach data annotation (whether automated or manual)
- Know how to run a small human annotation task
- 1. Typologies
- 2. Building a typology
- 3. Applying a typology human coding
- 4. Confirming an annotation
- 5. Applying a typology classifier

Lesson overview

Objectives

- Understand how to obtain human-provided annotations
- Understand design pitfalls when using human coding

Outline

- What is human coding?
- Human coding approaches
- Ethics approval
- Training

What is human coding?

Approaches to human coding

Expert coding

- You and your collaborators
- A small group of trained participants (paid or unpaid)

Crowd sourcing & mostly strangers, little quality control

Amazon Mechanical Turk

Introduction to Data Science Derek Ruths

higher tel 5 coding)

how to me to sight results of quality results

Number of annotators?

One annotator... can make mistakes

Les one person => nu one can check mon work i

• Two or more annotators ... will inevitably disagree. What to do with disagreements?

- Code them yourself?
- Have more coders annotate them?
- Have another category?

-Score by praporation
- Score by praporation category/ Laste Derek Ruths

- review and decide Pour genuscif (most labor intensive) - throw datapoint out (cheap + undesirable)

- throw data out + notes it but not super compelling

* to no horn me metis

* 15 here is visic, me mens

must outweigh them

Ethics approval

what is the impact

() on the people doing the annotating

Les people who see the end result

Les the researchers

Content moteration is a form of annotation

- after project decided, saxonowy defined, and # roders piched

Training

Help coders understand the concepts and how they apply at a deep level.

- Prepare a code book (an extension to the typology definition document)
- Prepare challenging examples
- Run group sessions with ample time to code content and discuss codings

Often training can help refine the typology.

The human coding process

- Preparation phase
 - Decide on human coding group (experts, small team, crowd)
 - Develop code book/training materials
 - Develop annotation software (if needed)
- Annotation phase
 - Recruit coders
 - Run training session
 - Run coding exercise (often spans days, sometimes weeks)
- 3 Validation phase
 - Throughout, assess the quality and level of agreement among coders

Lesson wrap-up

Takeaways

- Human coding is a lot of work
- It's also often the only way to get good annotations

Up next

Confirmation annotation quality