Unit 7: Data Annotation Confirming annotation quality

Lesson 51
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

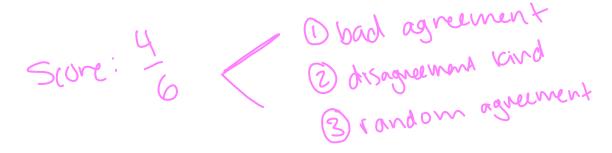
Lesson overview

Objectives

- Understand ways to compute coder agreement
- How to handle disagreements

Outline

- The problem
- Cohen's kappa
- Handling disagreements



The problem

2 coders

Tweet	Type of weather		
It's pouring outside.	R	R	V
Just came inside soaking wet.	R	A (ambiguous are)	X
Blizzard conditions out there! #hotchocolatetime	5	A	X
Going to get wet catching the bus today!	A	A	\bigvee
Sunglasses weather. Can't wait to take a walk.	SUN	SNV	
Pouring myself some cereal this morning.	X	X	V

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2 codings some agreements

Cohen's kappa

A way of scoring how good the agreement between two coders' annotations are.

$$\kappa \equiv rac{p_o - p_e}{1 - p_e}$$

-> nogative result your

Just mans your

Verily pad

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as is k=0.25 you are mandown 25% better vardown

Interpreting annotator agreement

Confusing typology

· Bad coder Laggear many times in disagreements

Tricky cases

THICKY Cases

Human error

what fyrus mistalus happened arround?
Which codes made mistalus?

Jells us

- multiple codes for same hing word

Lesson wrap-up

Takeaways

- Just like everything else in annotation... verifying quality involves work
- Must follow up with annotators and spend time with annotations

Up next

Automated annotation