Automated Methods to Improve Legal Coding Assessment

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Presentation Agenda











Findings



Takeaways

Introduction & Background











Bio: 2nd year Phd Student - University of Washington, Biomedical Health Informatics & Data Science

Background: B.S. Biochemistry from University of Illinois & M.S. in Law from Northwestern University

Research Themes: Public Health, Healthcare Access, NLP & Spatial Analysis

What is Legal Epidemiology

LEGAL EPIDEMIOLOGY IN PRACTICE: SIX STEPS



1. Engage

Identify a public health problem or a policy of interest through through feedback from the community, subject matter experts, and policymakers.



2. Identify research needs

Review existing research and identify gaps to inform new research on laws and policies.



3. Create legal data

Conduct a legal mapping study to create empirical legal data that can be compared across jurisdictions and over time.



4. Analyze

Complete a legal evaluation study to analyze the relationship between law and health using empirical legal data linked to outcome data.



5. Translate

Publish and communicate findings to inform public health practice, decision-making, and public knowledge via agencies, academia, decision-makers, advocates, media, and the public.



6. Monitor and repeat

Continue monitoring and measuring legal changes and engaging with the community and stakeholders about the impact of laws, repeating previous steps as legal changes arise.

Fellowship Project

Research Aim: How do automated computational methods of legal coding compare to manual legal coding methods?

Research Question 1: What is the <u>observed consistency across all</u> <u>human legal coding approaches</u>?

Research Question 2: What level of consistency is observed between the answers validated by humans versus computational methods?

Prior Work

Automation in the Legal Space

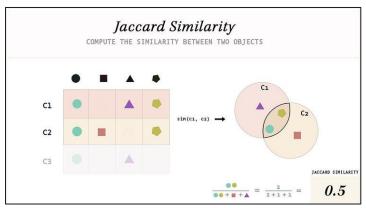
- Mainly utilized in contract law
 - Litigation
 - Templatized text
 - Drafting of documents



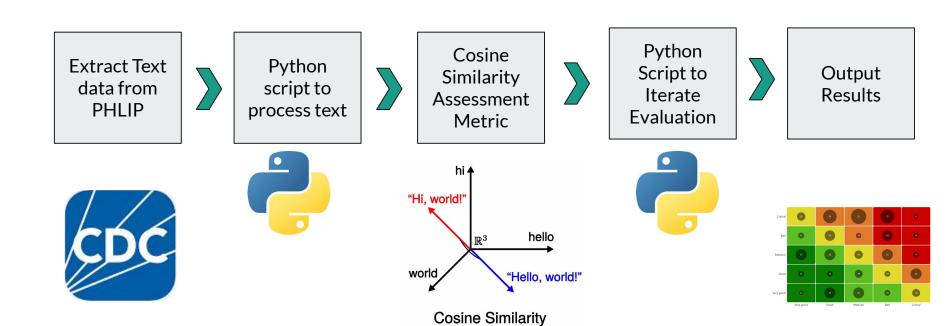
- Opportunities:
 - Case Law
 - Scope & Relevance Search

Metrics Utilized

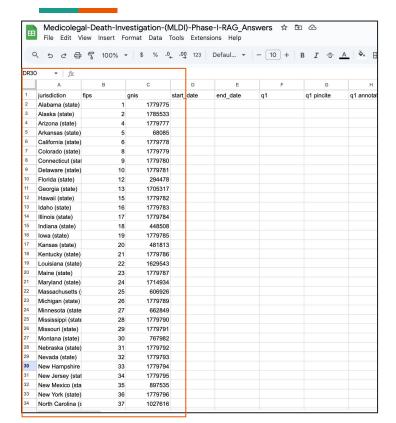
- Interrater Reliability
- Jaccard similarity scoring
- Sørensen-Dice coefficient
- Levenshtein distance



Methodology - RQ 1



Text considerations



We generally need to mask text that is expected to be present in every coder's data, for example the data template in this case. We can't get mask accuracy to be 100%, that is remove all templatized text from similarity assessment but we can get pretty close.

Coding Scheme [Snippet]

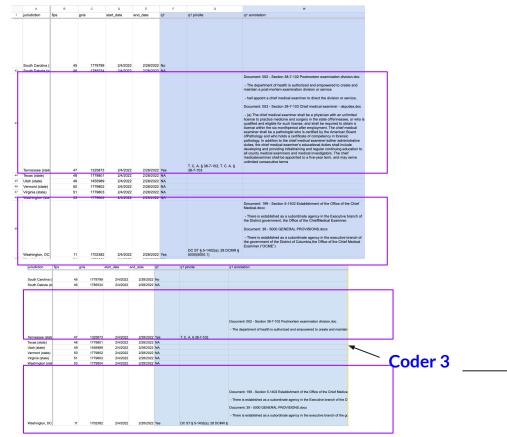
Question number	Variable label	Question type	Question text	Value label	
1	q1	Binary	Does the state/territorial law designate a state medical examiner (ME) office or authority?	Yes	
1	q1	Binary	Does the state/territorial law designate a state medical examiner (ME) office or authority?	No	
1.1	q1c1	Radio Button	If yes, is the state/territorial ME elected or appointed?	Elected	
1.1	q1c1	Radio Button	If yes, is the state/territorial ME elected or appointed?	Appointed	
1.1	q1c1	Radio Button	If yes, is the state/territorial ME elected or appointed?	N/A	
1.1.1	q1c1c1_a1	Checkbox	If appointed, who has the authority to appoint the state/territorial ME?	Governor	
1.1.1	q1c1c1_a1	Checkbox	If appointed, who has the authority to appoint the state/territorial ME?	[blank]	
1.1.1	q1c1c1_a2	Checkbox	If appointed, who has the authority to appoint the state/territorial ME?	Commission or board	
1.1.1	q1c1c1_a2	Checkbox	If appointed, who has the authority to appoint the state/territorial ME?	[blank]	
1.1.1	q1c1c1_a3	Checkbox	If appointed, who has the authority to appoint the state/territorial ME?	Lead/head of state agency	
1.1.1	q1c1c1_a3	Checkbox	If appointed, who has the authority to appoint the state/territorial ME?	[blank]	
1.1.1	q1c1c1_a4	Checkbox	If appointed, who has the authority to appoint the state/territorial ME?	Other	
1.1.1	q1c1c1_a4	Checkbox	If appointed, who has the authority to appoint the state/territorial ME?	[blank]	
1.1.1	q1c1c1_a5	Checkbox	If appointed, who has the authority to appoint the state/territorial ME?	N/A	
1.1.1	q1c1c1_a5	Checkbox	If appointed, who has the authority to appoint the state/territorial ME?	[blank]	
1.2	q1c2_a1	Checkbox	If yes, within which department or entity is the state/territorial ME's office situated?	Law enforcement	
1.2	q1c2_a1	Checkbox	If yes, within which department or entity is the state/territorial ME's office situated?	[blank]	
1.2	q1c2_a2	Checkbox	If yes, within which department or entity is the state/territorial ME's office situated?	Health (e.g., department of hea	alth, public health, health and human services
1.2	q1c2_a2	Checkbox	If yes, within which department or entity is the state/territorial ME's office situated?	[blank]	
1.2	q1c2_a3	Checkbox	If yes, within which department or entity is the state/territorial ME's office situated?	Homeland security	
1.2	q1c2_a3	Checkbox	If yes, within which department or entity is the state/territorial ME's office situated?	[blank]	
1.2	q1c2_a4	Checkbox	If yes, within which department or entity is the state/territorial ME's office situated?	Academic institution	
1.2	q1c2_a4	Checkbox	If yes, within which department or entity is the state/territorial ME's office situated?	[blank]	
1.2	q1c2_a5	Checkbox	If yes, within which department or entity is the state/territorial ME's office situated?	Independent	
1.2	q1c2_a5	Checkbox	If yes, within which department or entity is the state/territorial ME's office situated?	[blank]	
1.2	q1c2_a6	Checkbox	If yes, within which department or entity is the state/territorial ME's office situated?	Other	
1.2	q1c2_a6	Checkbox	If yes, within which department or entity is the state/territorial ME's office situated?	[blank]	
1.3	q1c3	Binary	Does the law limit the length of the state/territorial ME's term in office?	Yes	
1.3	q1c3	Binary	Does the law limit the length of the state/territorial ME's term in office?	No	
1.3.1	q1c3c1	Text Field	If yes, what is the term length?	[text]	

Scope of Final Question Set

Question #	Question Type		Value Label
Q1	Binary	Does the state/territorial law designate a state medical examiner(ME) office or authority?	yes/no
Q1C3	Binary	Does the law limit the length of the state/territorial ME's term in office?	yes/no
Q2	Binary	Does the law designate a local level medicolegal death investigation auhtority or office?	yes/no
Q2C2	Binary	Does the law limit the length of the local death investigation authority's term in office?	yes/no
Q3	Binary	Does the law expressly require medicolegal death investigation offices to be accredited?	yes/no
Q4	Binary	Does the law specify education or qualification requirements for death investigation authorities?	yes/no
Q5	Binary	Does the law require continuing education or training while in office?	yes/no
Q 6	Binary	Does the law authorize the lead medicolegal death investigation authority (or other government entity) to appoint or designate deputies?	yes/no

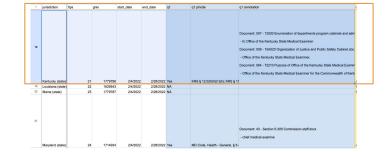
Q1 Text Sampling Comparison

Coder 1



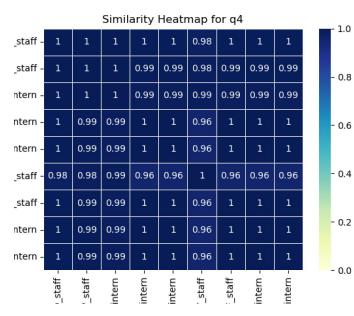
Coder 2

jurisdiction	fips	gnis	start_date	end_date	q1	q1 pincite	q1 annotation
Colorado (state)	8	1779779	2/4/2022	2/28/2022	No		
Connecticut (sta Delaware (state) Fiorida (state) Georgia (state) Hawaii (state) Idaho (state) Illinois (state) Indiana (state) Iowa (state) Kansas (state)	9	1779780 1779781 294478 1705371 1779782 1779783 1779784 448508 1779785	214/2022 214/2022 214/2022 214/2022 214/2022 214/2022 214/2022 214/2022 214/2022	2/28/2022 2/28/2022 2/28/2022 2/28/2022 2/28/2022 2/28/2022 2/28/2022 2/28/2022	Yes NA NA NA NA NA NA NA	C.G.S.A. § 19a-	Document: 54-S-CX3.DOC -(a) The Child Medical Examiner shall investigate all human deaths in the following categ Document: 11 - Sec 19a-401-1 Definitions.doc -(b) "Office" means the Office of the Chief Medical Examiner.
Kentucky (state) Louisiana (state)	21		214/2022 2/4/2022			KBS_§ 12 020(III	Document: 007 - 12020 Enumeration of departments program cabinets and administrative - (n) Office of the Kentucky State Medical Examiner. Document: 009 - 15A020 Organization of Justice and Public Safety Cabinet.doc - (n) Office of the Kentucky State Medical Examiner, Document: 064 - 72210 Purpose of Office of the Kentucky State Medical Examiner doc - establishing an Office of the Kentucky State Medical Examiner for the Commonwealth of
Maine (state)	23		2/4/2022	2/28/2022	NA		
Maryland (state) Massachusetts (24 25		2/4/2022 2/4/2022			MD Code, Healt	Document 43 - Section 5-305 Commission staff docx - (x(1) The Commission may employ a staff in accordance with the State budget for the c



Coding Pattern Variation

A	СМ						
jurisdiction	q4						
Alabama (state)	NA	Alabama (state)	Yes	Α		CM	
Alaska (state)	NA	Alaska (state)	NA	jurisdiction	ation	q4	q
Arizona (state)	NA	Arizona (state)	NA				
Arkansas (state)	NA	Arkansas (state)	NA				
				Alabama (state)		Yes	P
				Alaska (state)		NA	
				Arizona (state)		NA	
				Arkansas (state)		NA	
				California (state)		NA	
				Colorado (state)		NA	
				Connecticut (stat		NA	
				Delaware (state)		NA	
California (state)	Yes	California (state)	Yes	Florida (state)		NA	
				Georgia (state)		NA	
				Hawaii (state)		NA	
				Idaho (state)		NA	
				Illinois (state)		NA	
				Indiana (state)		NA	
				lowa (state)		NA	
				Kansas (state)		NA	
				Kentucky (state)		NA	
				Louisiana (state)		NA	
Colorado (state)	Yes	Colorado (state)	Yes	Maine (state)		NA	
				Maryland (state)		NA	
				Massachusetts (:		NA	
				Michigan (state)		NA	
				Minnesota (state		NA	
				Mississippi (state		NA	
				Missouri (state)		NA	
Connecticut (stat		Connecticut (stat	Yes	Montana (state)		NA	
Delaware (state)		Delaware (state)	NA	Nebraska (state)		NA	
Florida (state)	NA	Florida (state)	NA	Nevada (state)		NA	
Georgia (state)	NA	Georgia (state)	NA	New Hampshire		NA	
Hawaii (state)	NA	Hawaii (state)	NA				
Idaho (state)	NA	Idaho (state)	NA				
Illinois (state)	NA	Illinois (state)	NA				
		Indiana (state)	NA				



Results Part 1 - Coder Consistency Evaluation

	20		Simil	arity	Heatr	map f	or q1			 1.0		Sim	ilarit	y Hea	tmap	for q	1 pin	cite			9	Simila	arity I	Heatn	nap fo	or q1	annot	tation	Ľ
_staff -	1	0.96	0.84	0.81	1	0.98	0.96	1	1	1.0	1	0.86	0.52	0.58	0.51	0.91	0.58	0.85	0.9		ı	0.9	0.82	0.84	0.89	0.9	0.92	0.94	0.93
_staff -	0.96	1	0.96	0.62	0.95	1	1	0.95	0.95	- 0.8	0.86	1	0.47	0.63	0.5	0.91	0.55	0.75	0.83	0	.9	1	0.75	0.88	0.85	0.93	0.9	0.9	0.82
ntern -	0.84	0.96	1	0.37	0.82	0.94	0.96	0.82	0.82		0.52	0.47	1	0.6	0.64	0.64	0.71	0.5	0.3	0.	82	0.75	1	0.82	0.82	0.86	0.88	0.83	0.76
ntern -	0.81	0.62	0.37	1	0.83	0.66	0.62	0.83	0.83	- 0.6	0.58	0.63	0.6	1	0.58	0.7	0.74	0.57	0.41	0.	84	0.88	0.82	1	0.8	0.92	0.87	0.86	0.79
ntern -	1	0.95	0.82	0.83	1	0.97	0.95	1	1		0.51	0.5	0.64	0.58	1	0.6	0.65	0.47	0.32	0.	89	0.85	0.82	0.8	1	0.88	0.89	0.88	0.8
_staff -	0.98	1	0.94	0.66	0.97	1	1	0.97	0.97	- 0.4	0.91	0.91	0.64	0.7	0.6	1	0.72	0.8	0.75	- 0	.9	0.93	0.86	0.92	0.88	1	0.91	0.91	0.84
_staff -	0.96	1	0.96	0.62	0.95	1	1	0.95	0.95		0.58	0.55	0.71	0.74	0.65	0.72	1	0.59	0.35	0.	92	0.9	0.88	0.87	0.89	0.91	1	0.91	0.83
ntern -	1	0.95	0.82	0.83	1	0.97	0.95	1	1	- 0.2	0.85	0.75	0.5	0.57	0.47	0.8	0.59	1	0.68	0.	94	0.9	0.83	0.86	0.88	0.91	0.91	1	0.84
ntern -	1	0.95	0.82	0.83	1	0.97	0.95	1	1	- 0.0	0.9	0.83	0.3	0.41	0.32	0.75	0.35	0.68	1	0.	93	0.82	0.76	0.79	0.8	0.84	0.83	0.84	1
	staff -	_staff -	intern -	intern -	intern -	_staff -	_staff -	intern -	intern -	- 0.0	staff -	_staff -	intern -	intern -	intern -	_staff -	- staff -	intem -	intern -	#	- Stall -	_staff -	intern -	intern -	intern -	_staff -	- staff -	intern -	intern -

Coder Results - Questions

							-		
Subset Q	coder_1_staff	coder_2_staff	coder_3_intern	coder_4_intern	coder_5_intern	coder_6_staff	coder_7_staff	coder_8_intern	coder_9_intern
coder_1_staff	1±0	0.94±0.11	0.97±0.05	0.8±0.18	0.92±0.14	0.95±0.1	0.92±0.17	0.96±0.05	0.96±0.08
coder_2_staff	0.94±0.11	1±0	0.95±0.09	0.76±0.22	0.95±0.06	1±0	0.98±0.04	0.88±0.22	0.96±0.07
coder_3_intern	0.97±0.05	0.95±0.09	1±0	0.68±0.23	0.87±0.12	0.96±0.08	0.92±0.15	0.95±0.06	0.92±0.08
coder_4_intern	0.8±0.18	0.76±0.22	0.68±0.23	1±0	0.88±0.18	0.79±0.18	0.77±0.22	0.67±0.26	0.85±0.19
coder_5_intern	0.92±0.14	0.95±0.06	0.87±0.12	0.88±0.18	1±0	0.95±0.04	0.95±0.07	0.81±0.27	0.98±0.02
coder_6_staff	0.95±0.1	1±0	0.96±0.08	0.79±0.18	0.95±0.04	1±0	0.98±0.02	0.89±0.2	0.97±0.04
coder_7_staff	0.92±0.17	0.98±0.04	0.92±0.15	0.77±0.22	0.95±0.07	0.98±0.02	1±0	0.84±0.28	0.98±0.02
coder_8_intern	0.96±0.05	0.88±0.22	0.95±0.06	0.67±0.26	0.81±0.27	0.89±0.2	0.84±0.28	1±0	0.86±0.2
coder_9_intern	0.96±0.08	0.96±0.07	0.92±0.08	0.85±0.19	0.98±0.02	0.97±0.04	0.98±0.02	0.86±0.2	1±0
bset Questions: Q1, Q1C3	, Q3, Q2, Q2C2, Q3, Q4				S				
		1			3.0	2	30		.20
AllQ	coder_1_staff	coder_2_staff	coder_3_intern	coder_4_intern	coder_5_intern	coder_6_staff	coder_7_staff	coder_8_intern	coder_9_intern
coder_1_staff	0.81±0.39	0.64±0.46	0.58±0.48	0.58±0.46	0.68±0.45	0.72±0.43	0.72±0.42	0.7±0.44	0.57±0.48
coder_2_staff	0.64±0.46	0.69±0.46	0.5±0.49	0.49±0.47	0.62±0.47	0.68±0.46	0.61±0.47	0.59±0.47	0.49±0.49
coder_3_intern	0.58±0.48	0.5±0.49	0.62±0.49	0.4±0.45	0.53±0.47	0.54±0.48	0.58±0.47	0.53±0.48	0.43±0.48
coder_4_intern	0.58±0.46	0.49±0.47	0.4±0.45	0.67±0.47	0.54±0.48	0.55±0.46	0.55±0.46	0.5±0.46	0.46±0.47
coder 5 intern	0.68±0.45	0.62±0.47	0.53±0.47	0.54±0.48	0.74±0.44	0.64±0.46	0.65±0.46	0.61±0.46	0.49±0.5
	0.72±0.43	0.68±0.46	0.54±0.48	0.55±0.46	0.64±0.46	0.76±0.43	0.68±0.45	0.6±0.47	0.51±0.49
coder_6_staff		0.61±0.47	0.58±0.47	0.55±0.46	0.65±0.46	0.68±0.45	0.83±0.37	0.61±0.47	0.51±0.49
	0.72±0.42	0.01±0.47					100 to 10		
coder_6_staff	0.72±0.42 0.7±0.44	0.59±0.47	0.53±0.48	0.5±0.46	0.61±0.46	0.6±0.47	0.61±0.47	0.71±0.45	0.52±0.48

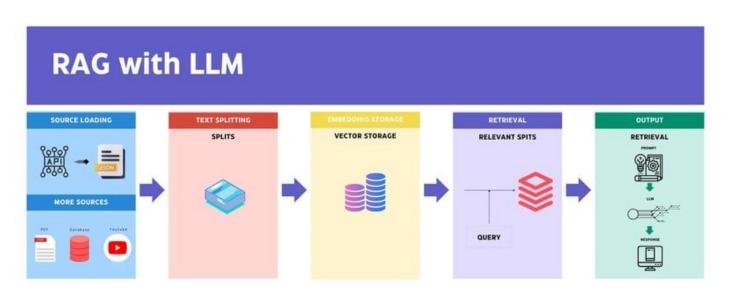
The subset question evaluation have higher agreement scores and lower variance

There is also more agreement between staffers

Coder Results - Pincites and Annotations

Pincites	coder_1_staff	coder_2_staff	coder_3_intern	coder_4_intern	coder_5_intern	coder_6_staff	coder_7_staff	coder_8_intern	coder_9_intern
coder_1_staff	0.76±0.43	0.35±0.35	0.25±0.27	0.2±0.22	0.25±0.23	0.5±0.4	0.32±0.28	0.57±0.41	0.41±0.4
coder_2_staff	0.35±0.35	0.64±0.48	0.19±0.24	0.19±0.23	0.2±0.21	0.55±0.42	0.26±0.26	0.3±0.33	0.26±0.34
coder_3_intern	0.25±0.27	0.19±0.24	0.55±0.5	0.18±0.24	0.23±0.26	0.26±0.3	0.35±0.38	0.2±0.24	0.19±0.26
coder_4_intern	0.2±0.22	0.19±0.23	0.18±0.24	0.57±0.49	0.19±0.23	0.22±0.25	0.25±0.28	0.16±0.2	0.14±0.19
coder_5_intern	0.25±0.23	0.2±0.21	0.23±0.26	0.19±0.23	0.67±0.47	0.25±0.25	0.32±0.3	0.2±0.19	0.15±0.2
coder_6_staff	0.5±0.4	0.55±0.42	0.26±0.3	0.22±0.25	0.25±0.25	0.74±0.44	0.34±0.3	0.34±0.33	0.28±0.33
coder_7_staff	0.32±0.28	0.26±0.26	0.35±0.38	0.25±0.28	0.32±0.3	0.34±0.3	0.81±0.39	0.25±0.24	0.21±0.26
coder_8_intern	0.57±0.41	0.3±0.33	0.2±0.24	0.16±0.2	0.2±0.19	0.34±0.33	0.25±0.24	0.67±0.47	0.29±0.32
coder_9_intern	0.41±0.4	0.26±0.34	0.19±0.26	0.14±0.19	0.15±0.2	0.28±0.33	0.21±0.26	0.29±0.32	0.52±0.5
		2	×		532				15
Annotations	coder_1_staff	coder_2_staff	coder_3_intern	coder_4_intern	coder_5_intern	coder_6_staff	coder_7_staff	coder_8_intern	coder 9 intern
coder_1_staff									
coder_i_starr	0.76±0.4	0.45±0.39	0.4±0.5	0.34±0.3	0.49±0.35	0.55±0.41	0.54±0.4	0.62±0.39	0.45±0.37
coder_2_staff	0.76±0.4 0.45±0.32	0.45±0.39 0.64±0.36	0.4±0.5 0.34±0.3	0.34±0.3 0.33±0.49	0.49±0.35 0.4±0.31	0.55±0.41 0.58±0.35	0.54±0.4 0.47±0.33	0.62±0.39 0.42±0.32	0.45±0.37 0.34±0.3
coder_2_staff	0.45±0.32	0.64±0.36	0.34±0.3	0.33±0.49	0.4±0.31	0.58±0.35	0.47±0.33	0.42±0.32	0.34±0.3
coder_2_staff coder_3_intern	0.45±0.32 0.4±0.37	0.64±0.36 0.34±0.36	0.34±0.3 0.55±0.35	0.33±0.49 0.23±0.31	0.4±0.31 0.35±0.46	0.58±0.35 0.39±0.37	0.47±0.33 0.41±0.37	0.42±0.32 0.36±0.37	0.34±0.3 0.3±0.35
coder_2_staff coder_3_intern coder_4_intern	0.45±0.32 0.4±0.37 0.34±0.42	0.64±0.36 0.34±0.36 0.33±0.44	0.34±0.3 0.55±0.35 0.23±0.41	0.33±0.49 0.23±0.31 0.57±0.35	0.4±0.31 0.35±0.46 0.29±0.37	0.58±0.35 0.39±0.37 0.35±0.44	0.47±0.33 0.41±0.37 0.33±0.39	0.42±0.32 0.36±0.37 0.3±0.41	0.34±0.3 0.3±0.35 0.25±0.39
coder_2_staff coder_3_intern coder_4_intern coder_5_intern	0.45±0.32 0.4±0.37 0.34±0.42 0.49±0.39	0.64±0.36 0.34±0.36 0.33±0.44 0.4±0.41	0.34±0.3 0.55±0.35 0.23±0.41 0.35±0.4	0.33±0.49 0.23±0.31 0.57±0.35 0.29±0.33	0.4±0.31 0.35±0.46 0.29±0.37 0.69±0.37	0.58±0.35 0.39±0.37 0.35±0.44 0.43±0.39	0.47±0.33 0.41±0.37 0.33±0.39 0.45±0.39	0.42±0.32 0.36±0.37 0.3±0.41 0.45±0.41	0.34±0.3 0.3±0.35 0.25±0.39 0.32±0.4
coder_2_staff coder_3_intern coder_4_intern coder_5_intern coder_6_staff	0.45±0.32 0.4±0.37 0.34±0.42 0.49±0.39 0.55±0.44	0.64±0.36 0.34±0.36 0.33±0.44 0.4±0.41 0.58±0.4	0.34±0.3 0.55±0.35 0.23±0.41 0.35±0.4 0.39±0.39	0.33±0.49 0.23±0.31 0.57±0.35 0.29±0.33 0.35±0.32	0.4±0.31 0.35±0.46 0.29±0.37 0.69±0.37 0.43±0.37	0.58±0.35 0.39±0.37 0.35±0.44 0.43±0.39 0.74±0.41	0.47±0.33 0.41±0.37 0.33±0.39 0.45±0.39 0.53±0.41	0.42±0.32 0.36±0.37 0.3±0.41 0.45±0.41 0.45±0.47	0.34±0.3 0.3±0.35 0.25±0.39 0.32±0.4 0.36±0.38

Methodology - RQ 2



Key Considerations

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Privacy

Legal Language

Accuracy

Results Part 2 - Automated Coding Comparison

PRELIMINARY RAG TESTS:

BINARY QUESTIONS

ALABAMA - QUESTION1: Does the state/territorial law designate a state medical examiner (ME) office or authority?

Validated answer: No

RAG Answer:

Enter your question (or type 'exit' to quit): Does the state/territorial law designate a state medical examiner (ME) office or authority?

Based on the provided context, it appears that Alabama does not have a designated state-level Medical Examiner (ME) office or authority within the Alabama Coroners Training Commission. The definition provided for "Medical Examiner" is for a physician trained to perform postmortem examinations and investigate deaths from unnatural or suspicious causes, but there is no mention of a state-wide of fice or authority that oversees all medical examiners in the state. However, this does not necessarily mean that such an office or authority does not exist elsewhere within the Alabama government structure. Without further information about other possible sources of ME oversight in Alabama, it cannot be definitively confirmed whether there is a designated state-level ME office or authority or

PASSED

Results Part 2 - Automated Coding Comparison

Question 2: Does the law designate a local level medicolegal death investigation authority or office?

Validated Answer: Yes

RAG answer:

Enter your question (or type 'exit' to quit): Does the law designate a local level medicolegal death investigation authority or office please answer as yes or no
Yes, based on the provided definitions, the Alabama Administrative Code does designate a local-level medicolegal death investigation authority, which is referred to as a "Coroner." A Coroner is a duly elected or appointed person, as described by Alabama state statute.

PASSED

Results Part 2 - Automated Coding Comparison

For Question 2: what are the documents and annotations supporting the previous answer?

Enter your question (or type 'exit' to quit): what are the documents and annotations supporting the previo The document and annotations supporting the definitions provided in your context can be found in the text ly in two parts:

- 1. The first part is a rule from the Alabama Administrative Code (Ala. Admin. Code r. 235–X-1-.01) titled ontains definitions for various terms used by the Alabama Coroners Training Commission.
- The second part includes important details about the document itself:
 - Author: Bill Harris
- Statutory Authority: Code of Ala. 1975, § 11-5-31. (This refers to the specific state law that gives s rule.)
- History: New Rule: Filed June 17, 2019; effective August 1, 2019. (These lines indicate when the rule fective.)
- Current through the September 30, 2021 Alabama Administrative Monthly. Some sections may be more curredit on each document for more information. The Rules of the Alabama Banking Department are not part of thode. (These lines give information about the currency and applicability of the rule.)
- Copyright (C) 2021 BY STATE OF ALABAMA. ALL RIGHTS RESERVED. (This is a copyright notice for the docu Enter your question (or type 'exit' to quit): □

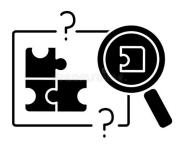
Validated Answer:

Pincite: Ala.Code 1975 § 11-5-1; Ala.Code 1975 § 45-27-60; Ala.Code 1975 § 45-49-171.73; Ala.Code 1975 § 45-49-171.60; Ala.Code 1975 § 45-37-60.09; Ala.Code 1975 § 45-37-60.01; Ala.Code 1975 § 45-49-171.61

Annotation:

Document: 03 - Section 11-5-1 Election - term of office.doc

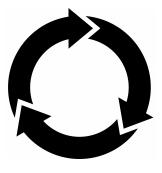
Challenges & Considerations



Data Gaps & Text Documentation Size ex. VFC



Privacy e.g. RAG Design



Model Training

Takeaways

Future Expansion

- Model Fine Tuning
- Application to other legal coding projects
- Legal language model development
- Assessment for Relevancy
- Automate interrater reliability calculations

Deliverables

- Github repository with project code to be made reusable
 - Python script for coder consistency
 - Python script for RAG generation
- Project Write Up
- Results

Question or Comments?



Thank you!

Contact: araj3609@uw.edu

Aishwarya Raj