

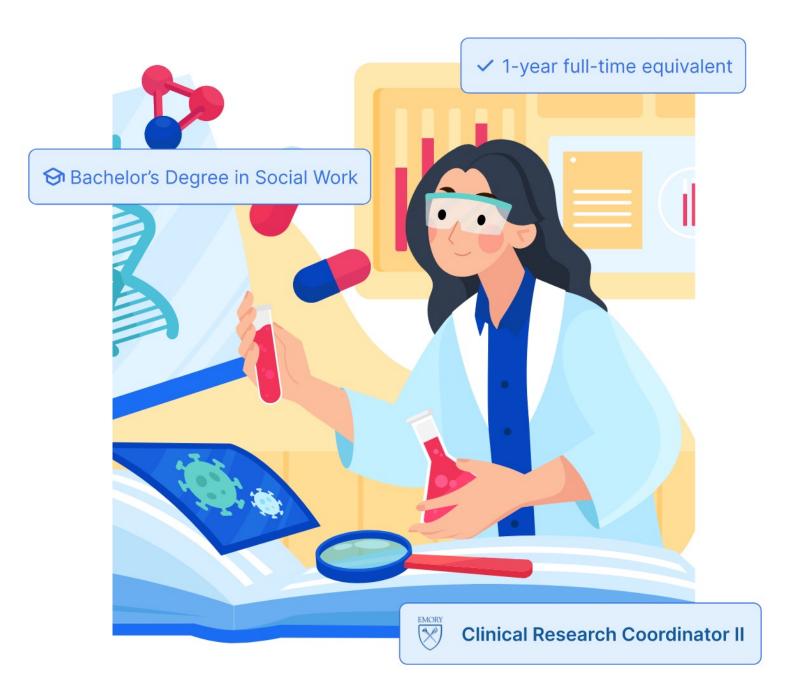


Save time and apply to the right CRC job level

Find the appropriate CRC level, receive tailored advice on the training, skills, and competencies for this level in 5 minutes.

Enter Password

Find My CRC Level



MOTIVATION - CLINICAL TRIALS



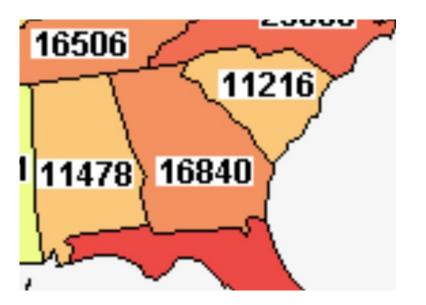
481,599 Studies World Wide (Not all Are Active)

Clinical Trials.gov

16,840 Studies in Georgia (Not all Are Active)

Clinical research coordinators: Key components of an efficient clinical trial unit

<u>Vincenzina Mora</u>,^{a,1} <u>Stefania Colantuono</u>,^{a,*,1} <u>Caterina Fanali</u>,^a <u>Alessia Leonetti</u>,^a <u>Giulia Wlderk</u>,^a <u>Maria Antonia Pirro</u>,^a <u>Francesca Maria Calà Palmarino</u>,^a <u>Roberta Savini</u>,^a <u>Gianluca Ianiro</u>,^b <u>Antonio Gasbarrini</u>,^b and SC&RN group², on behalf of



- Protocol Development
- •Regulatory Compliance
- •Participant Recruitment
- •Data Collection and Management
- •Communication and Collaboration
- •Monitoring and Quality Assurance
- Safety Reporting
- •Study Closure and Reporting



PROBLEM

<u>Hiring Challenge</u>: 52% of talent acquisition leaders report the hardest part of recruitment is finding the 'right candidate' from a large and diverse applicant pool.

The problem is 2-fold:

1. Applicant Uncertainty: Candidates are unsure about which job level is the best fit for them (CRC 1-4).

2. Recruiter Effort: HR recruiters spend significant time matching applicants to job positions using imprecise semantic searches or unsophisticated Al screening methods.

Hiring the wrong applicant results in frustration, attrition, and delayed project initiation and progress.

7/1/20XX

SOLUTION: TALENT TRACE

An Advanced Decision-Based Tool for Accurate Candidate to Position Matching in Multi-Level Jobs

TARGET AUDIENCE

<u>Applicants:</u> App designed to assist candidates in identifying the most suitable job level based on their qualifications.

HR Recruiters: Advanced Decision Tool to enhance matchmaking.

COST SAVINGS

Reduces resume screening time by 15-fold

USABILITY

<u>Applicants:</u> App returns a CRC position-level based on self-reported education & experiences.

HR Recruiters: Seamless integration into an existing Applicant Tracking Systems (ATS) for an unbiased and intuitive candidate score (0-100).



TALENT TRACE SECRETS!

What Do We Use?

Decision Trees?

BERT?

LLM?

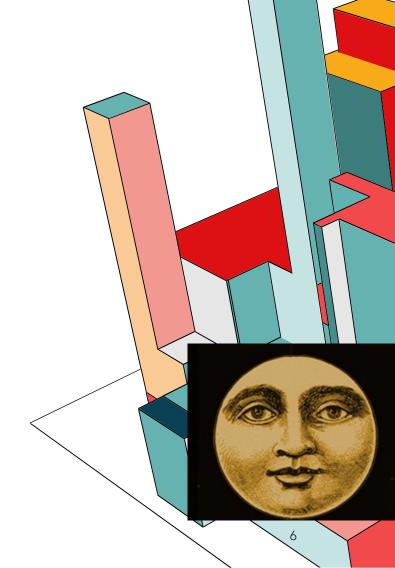
Ensemble Methods?

Oujia Board?

Astrology?

All Of The Above?

We Tried Some Things!



Underlying pic by Mike Mozart of TheToyChannel and JeepersMedia



Competence-Level Prediction and Resume & Job Description Matching Using Context-Aware Transformer Models

Changmao Li♠, Elaine Fisher⋄, Rebecca Thomas⋄, Steve Pittard♣, Vicki Hertzberg⋄, Jinho D. Choi♠

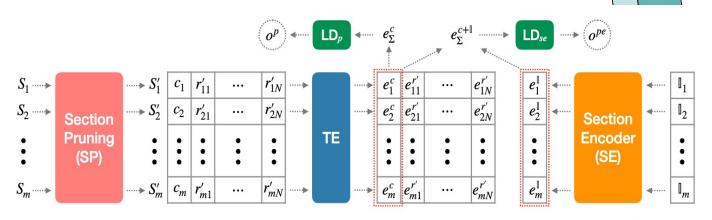


Figure 2: The context-aware model using section pruning (§4.1.2) and section encoding (§4.1.4).

	DEV	TST	δ
W_{r+b}	76.24 (±1.08)	77.70 (±0.59)	-
P⊕I⊕J	$74.73 (\pm 0.54)$	$75.60 (\pm 1.07)$	-2.1
$P \oplus I \oplus J \oplus A$	$75.36 (\pm 0.57)$	77.25 (± 0.87)	-0.5
$P \oplus I \oplus J \oplus A \ominus E$	76.42 (±0.22)	77.58 (±0.95)	-0.1
C⊕I⊕J	73.85 (±0.87)	74.65 (±1.87)	-3.1
C⊕I⊕J⊕A	76.99 (±1.10)	79.20 (±0.26)	1.5
$C \oplus I \oplus J \oplus A \ominus E$	$76.20 (\pm 0.96)$	$78.49 (\pm 0.74)$	0.8



RESUMES

Unstructured Data, Many Formats, Not Easy to Parse for Years of Experience

Non-standard Degree names, Medical Degree Requirements are different across the globe

Non-standard Professional Certificates

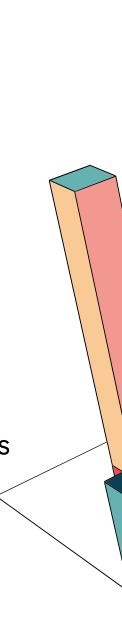
If the Parser Gets It Wrong Then a That's It

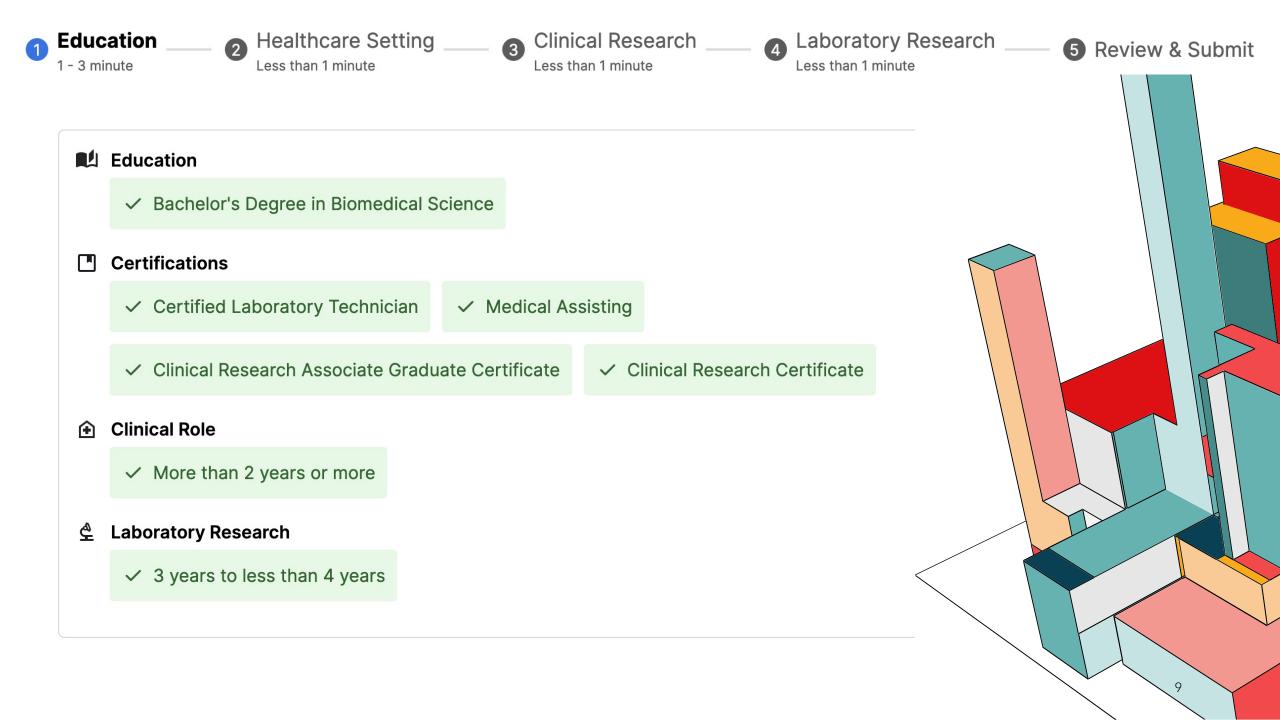
FLIP THE SCRIPT

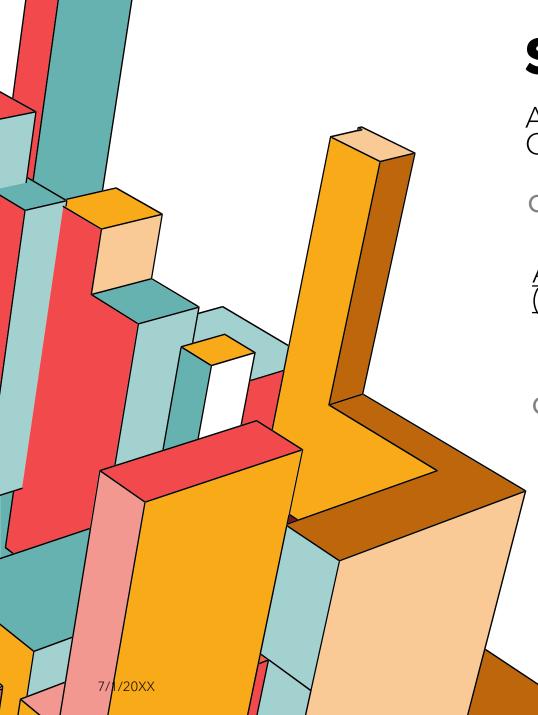
Give The Applicant a Private Experience Pre-HR

False Positives Still Possible But Talent Trace Provides Accurate Level Estimates

Gives Info On Levelling Up







SOLUTION: TALENT TRACE

An Advanced Decision-Based Tool for Accurate Candidate to Position Matching in Multi-Level Jobs

CURRENT ACCURACIES

Anticipated in the 90 plus % range (pending full testing)

COST SAVINGS

Reduces resume screening time by 15-fold

USABILITY

<u>Applicants:</u> App returns a CRC position-level based on self-reported education & experiences.

HR Recruiters: Seamless integration into an existing Applicant Tracking Systems (ATS) for an unbiased and intuitive candidate score (0-100).

MVP

Minimum Viable Product (v1.0)

Available Now!

Test on 1,000 Resumes

Next Steps

Fund Raising

Pilot Projects (Duke, Vanderbilt)

- Community Building
 - Locate Industry Partner
 - Incorporate Business
 - SBIR
 - More Customer Discovery

