



How Might We: Transcribe handwritten medical charts into electronic searchable text?



Potential Customer Testimonials



"I would absolutely use this product; in working for the [Department of Health], being able to increase specification of historical vaccine logs would be critical in today's climate of disease recurrence."

"While medical research is [nearly] endless, epidemiologic studies get scarce prior to ~100 years ago. In increasing data accessibility, we would be better prepared to run meaningful, comprehensive studies."

"Epidemiologic data from the 18th and 19th century is literally blank, and making them available can greatly advance our research on the risk factors of diseases."

"The lack of historical dataset is one of the biggest obstacles to epidemiology research, and the **auto-generation of dataset from historical medical charts** will save tremendous amount of time and efforts for public health researchers"

"Information is the lifeblood of medicine"

Market Size



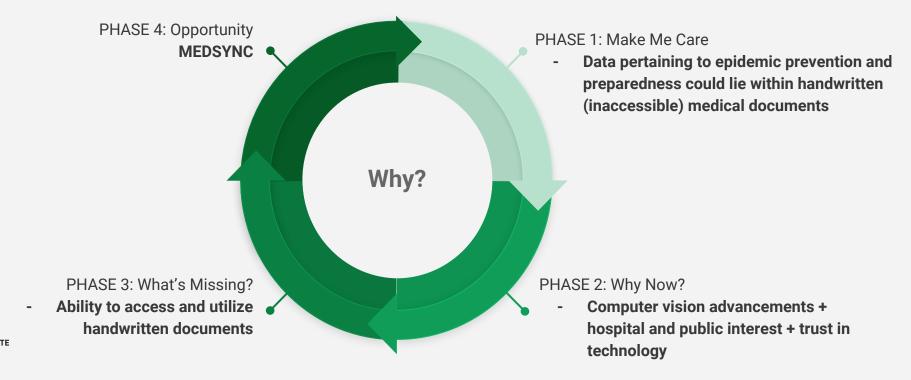
- Vast archives at New York Presbyterian
- 142 teaching hospitals in the US, each potentially having own unique libraries
- Over 400,000 pieces of printed work at the National Library of Medicine





Our Opportunity





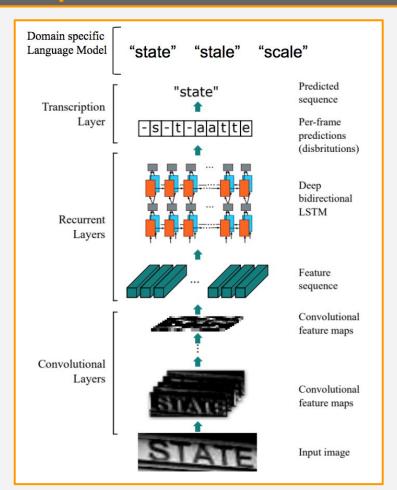


medsync

Has been in Umerica four years - eightein months ago began to suffer from a severe from commencing in the left hip and there extending down the posterior and outer aspect of the leg to the ankle. This pain has been constant ever since - it is more severe in damp and unpleasent weather - aggravated by motion and relie. - ored by rest - general health good - appetite from - menstruates regularly - bowels rather confined - pulse natural skin cool and telectricity by acupunctuation " 23 Patient has complained of more fram since the application of electricity - ordered to be discontinued Ord lemp: vesic: along come of scrate augh 8 Patient has somewhat improved pain entucly gone - since last note patient has had five a six blisters applied Constipation

Technical Expertise





Exact Word Match Accuracy

Vision GCP API	Language Model Output
~8%	73.90%

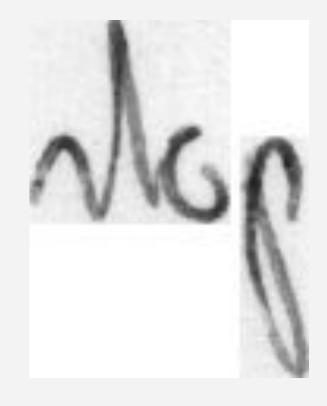
Next Step:

↑ Data == ↑ Accuracy





- Unclear between mop, hop and top
- 2. Worse for longer words



Our Journey



Sprint 1

Lack of focused market/

Minimal training data

target audience

Focused market and audience

Sprint 2

- New training data
- Lack of focused user story

Focused market and

Sprint 3

- Better training data and test data
- Focused user story



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Next Steps









Transcribathons

Limited amounts of training data

Working ML Model

Works primarily with training data from online sources

Create end-to-end model that is capable of transcribing NYP archives

Need to box words

Increase training data from correct century to maximize accuracy

