DONE WE MAKE SENSE.

Hello word!





MACHINE DECISIONS Not better than Human decisions But Faster

COMMON SENSE 02.11.2017



Decision Automation

SOME WELL KNOWN APPLICATIONS:

Fraud Detection LEGITIMATE / FRAUD

Medical Help SUGGESTIONS / COUNTER INDICATIONS

Claim Process ACCEPT / REJECT

Claim Automation

Manage growth of volume / reduce labor cost

Decide more consistently

Pave road for further applications

Current Process

AVAILABLE AUTOMATION ENGINES

Medical Rule Engine (MRE)

Different Business / Policy Rule Engines (BRE)

Process Rules (PRules)



SITUATION ANALYSIS

Automation Coverage (annually)





Decide the same as in the past medical decisions.

FOR AN UNDECIDED ACTIVITY OF A CLAIM

We have to identify past "similar claims"

If the past decisions for this activity are homogeneous enough we assign the majority vote from history as the decision.



METHODOLOGY

Features



Drug Representations

We use **Word2Vec** to represent drug words in a vector space. The relations between drugs words are dictated by claim sentences.



CLAIM's DRUG IDs



DONE

Capturing similar claims



Cosine distance used to find nearby claims from history



DONE

Decision

We take the A/R decision on claim's activity based on past activity decisions from similar claims.

If the past activity decisions are homogenous enough we assign majority vote from the past as the decision. **METHODOLOGY**



DONE

Implementation

EXTENSION OF MEDICAL RE Fast AND Robust

PROCESS FOR RECURRING TESTING AND REPORTING

Transparency AND Building trust



Success Factors

Involve business to build trust and create value.

Framework for collaboration

Focus on a specific pain point

Leverage existing process

Thank you! Let's automate!





SOURCE twitter.com/bccresearch/