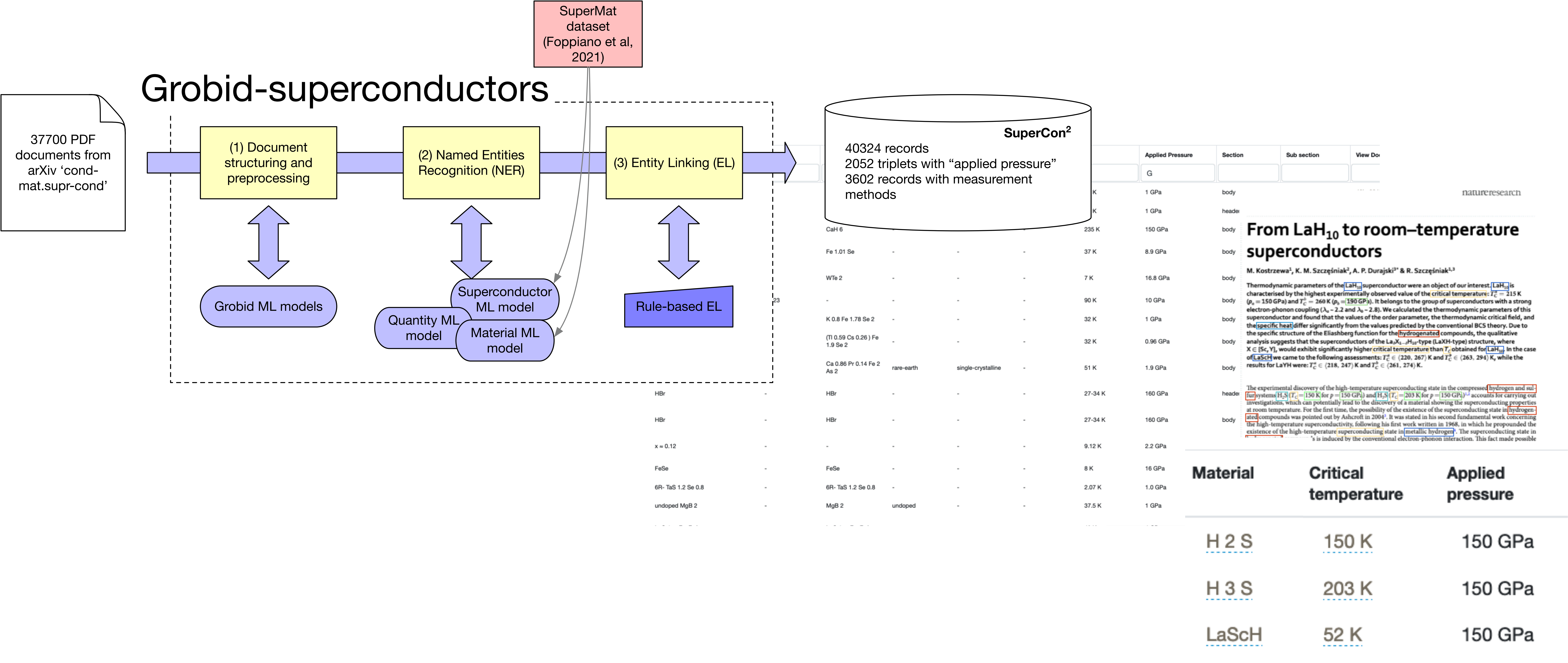

SuperMat dataset (Foppiano et al, 2021)
Grobid-superconductors
37700 PDF documents from arXiv 'cond-mat.supr-cond'
(1) Document structuring and preprocessing
(2) Named Entities Recognition (NER)
(3) Entity Linking (EL)
Grobid ML models
Superconductor ML model
Quantity ML model
Material ML model
Rule-based EL
SuperCon²
40324 records
2052 triplets with "applied pressure"
3602 records with measurement methods
From LaH10 to room-temperature superconductors
Material
Critical temperature
Applied pressure
H 2 S
150 K
150 GPa
H 3 S
203 K
150 GPa
LaScH
52 K
150 GPa