

Clinical NLP Task Taxonomy



Named Entity Recognition

EXTRACTION

Identify diseases, medications, symptoms, procedures



Patient has diabetes and takes metformin



Relation Extraction

RELATION

Find relationships between medical entities



Drug X → causes → Side Effect Y



Temporal Expression

TEMPORAL

Normalize time expressions and event sequences



"2 weeks ago" → 2024-10-30



Negation Detection

LOGIC

Identify negated medical concepts



"No signs of infection" ≠ "Infection present"



Medical Code Mapping

MAPPING

Map clinical text to ICD-10, CPT, SNOMED codes



"Hypertension" → ICD-10: I10



Clinical Text Summarization

GENERATION

Generate concise summaries from clinical notes



Long note → Discharge summary