

Clinical NLP Task Taxonomy

 Named Entity Recognition Identify diseases, medications, symptoms, procedures  Patient has <u>diabetes</u> and takes <u>metformin</u>	EXTRACTION	 Relation Extraction Find relationships between medical entities  <u>Drug Y</u> → causes → <u>Side Effect Y</u>	RELATION
 Temporal Expression Normalize time expressions and event sequences  "2 weeks ago" → <u>2024-10-30</u>	TEMPORAL	 Negation Detection Identify negated medical concepts  " <u>No signs</u> of infection" ≠ "Infection present"	LOGIC
 Medical Code Mapping Map clinical text to ICD-10, CPT, SNOMED codes  "Hypertension" → <u>ICD-10: I10</u>	MAPPING	 Clinical Text Summarization Generate concise summaries from clinical notes  Long note → <u>Discharge summary</u>	GENERATION