



AI synergy!

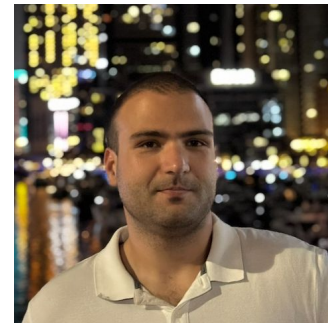
Knowledge Graph-Driven RAG for Biomedical Chatbots



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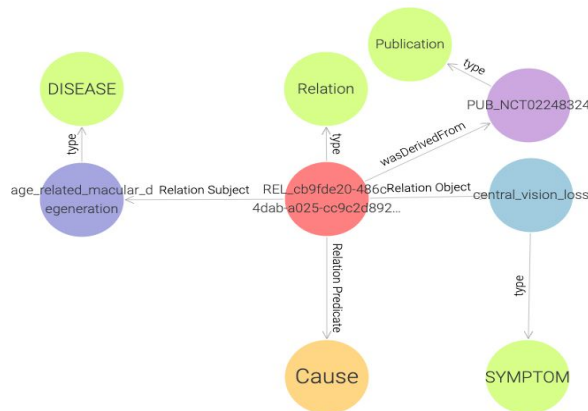
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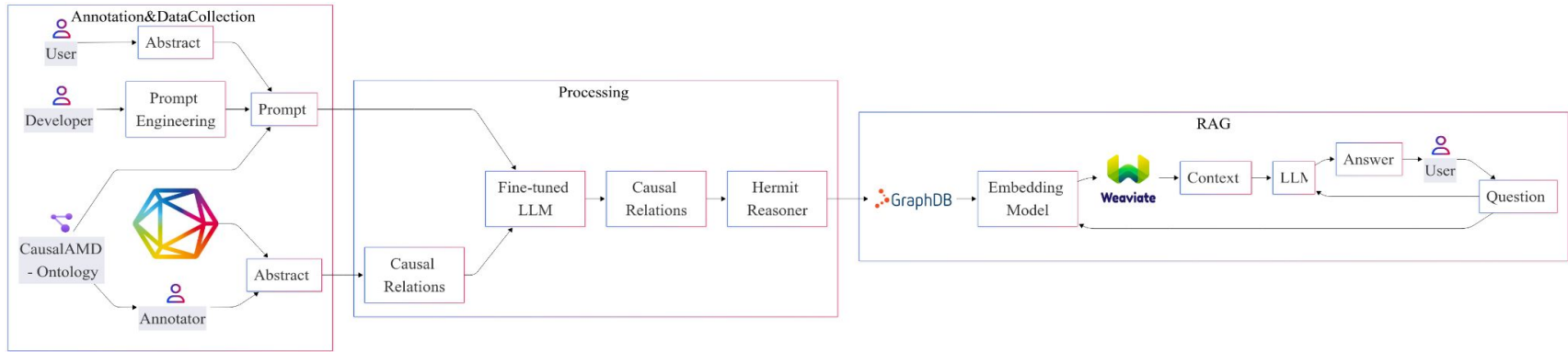
Knowledge Graph Engineering for AMD

- Knowledge Graphs (KGs) organize complex biomedical data into structured networks of entities and relationships
 - Captures entities (e.g., diseases, genes, treatments)
 - Extracts causal relationships (e.g., 'causes,' 'treats')
 - Links to clinical studies for verification
- Goal: Transform medical literature into actionable AI knowledge



Medical Chatbot Using RAG

- Our chatbot answers AMD questions with verified information
 - Retrieves facts from our medical knowledge graph
 - Generates answers with hyperlinked references to clinical studies
 - Reduces misinformation by grounding responses in verified research
- Eliminates medical misinformation through source transparency





Collaboration inquiry/offer

Open for **research collaborations, joint research proposals,
knowledge transfer**
on KGs, LLMs, and chatbots

