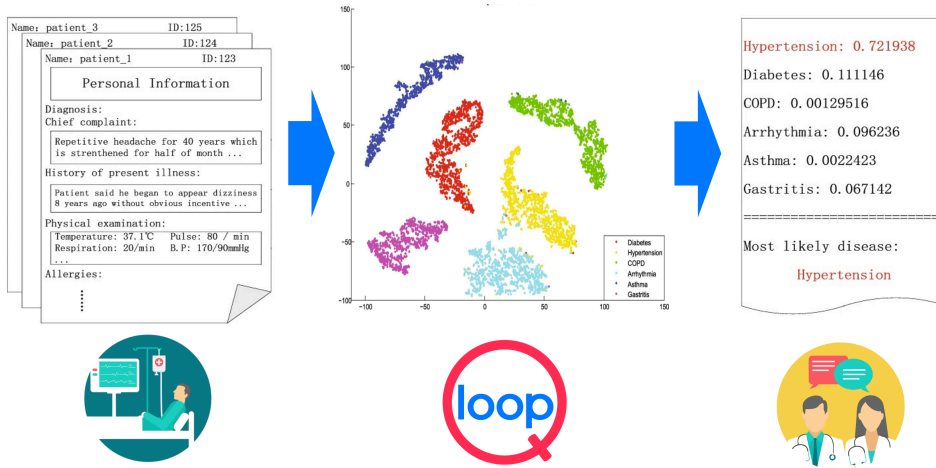


loop.ai Group AI AGENT FOR JUNIOR DOCTOR DIAGNOSIS SUPPORT



BUSINESS CHALLENGE

The goal was to assist junior doctors in diagnosing new patients by analyzing and correlating medical records from previous cases, including diagnoses, vital signs, treatments, recovery speed, and outcomes, while ensuring patient privacy. The AI agent, with access to both current and historical patient data, helps doctors develop personalized treatment plans.

By continuously analyzing a patient's vital signs, existing conditions, and the effectiveness of ongoing therapy, the AI supports the delivery of the most effective treatment options for each patient.

COGNITIVE SOLUTION

The AI Agent built on the Loop Cognitive Platforms leverages the full content of historical medical records to assist doctors in making diagnoses, regardless of their seniority level.

Dark data used for training:

Historical medical records including recovery progress, duration, and final outcomes.

Dark data used for inference:

New patient medical records with real-time updates, including symptoms, vital signs, and ongoing therapy.

Industry: Healthcare

INTERNAL RESEARCH LAB PROJECT

This project was conducted as an internal initiative in collaboration with a participating mid-sized hospital, aimed at enhancing diagnostic support for junior doctors using AI-driven analysis of historical medical records and live patient data.

RESULTS

13.82 ms AVERAGE DIAGNOSIS TIME
per medical record

96% ACCURACY OF DIAGNOSIS ON TEST SET
surpassing traditional methods by 10-15%

30% REDUCTION IN TREATMENT INITIATION TIME

25% PATIENT OUTCOME IMPROVEMENT
due to more accurate, timely diagnoses