

Team :
mehakdogra2005

Team Info

Problem Statement

Solution Overview

Framework

Implementation
Technology

MVP

Intelezyer

Smart AI Agent to optimize the medical data collection tool

Novartis AI Hackathon

<https://github.com/khushisharma123456/Novartis>



TEAM :

Members:

- Mehak Dogra (Team Lead)

mail: mehakdogra2005@gmail.com

- Khushi Sharma

mail:

khushi.khushisharma1210@gmail.com

- Suhani Goyal

mail: goyalsuhani04@gmail.com



Problems

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Safety in Controlled Trials vs. Safety in the Real World

Critical details such as:

- patient demographics,
- seriousness criteria,
- temporal relationship,
- concomitant medications,
- outcome and causality indicators

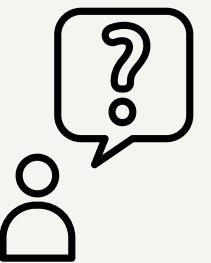


must be paid attention to in AE Report

Initial AE Reports Lack Key Data

Why ?

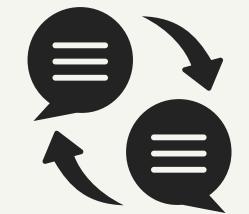
- Submitted spontaneously during stressful clinical situations
- Limited familiarity with PV terminology
- Generic reporting channels
- Assumption that missing details will be completed later



The Follow-Up Process: Where the System Breaks

Once gaps are identified, companies initiate follow-ups via:

- emails
- phone calls
- letters
- repeated questionnaires

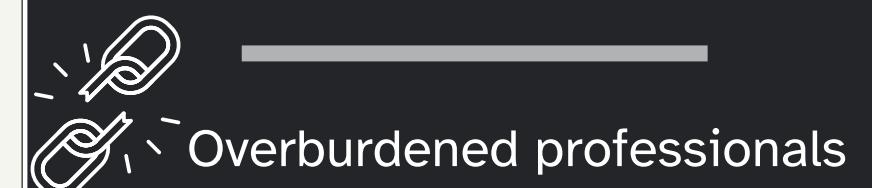


However, **this is where failure rates spike.**



! Key failure drivers

Repetitive questionnaires

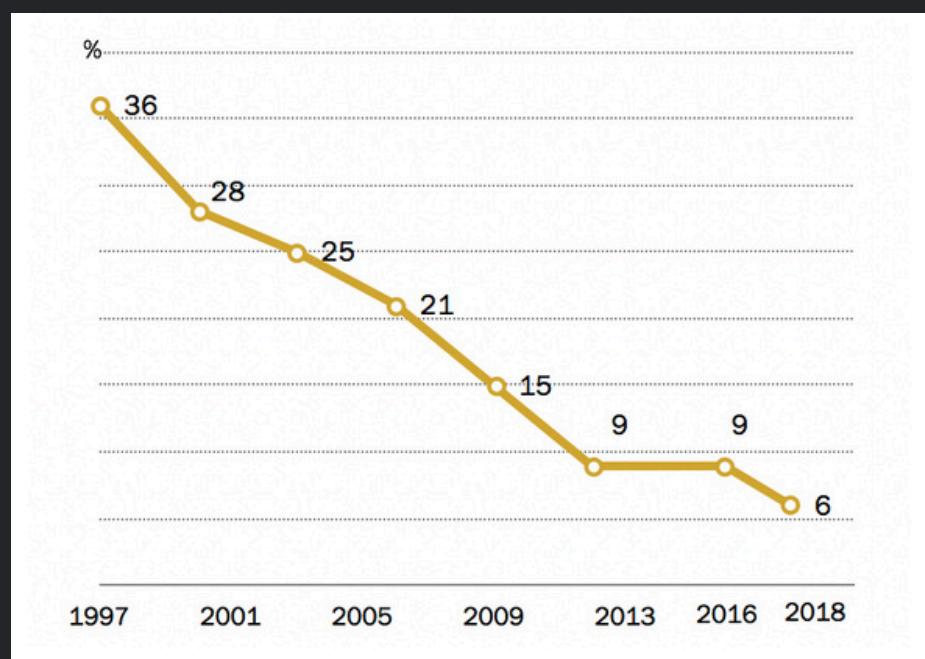


Overburdened professionals

Lack of transparency



Graph shows the Response Rate to the feedback calls



OUR REALITY

Only 30-40% of follow-up requests receive complete responses

"The system depends on human goodwill—but is designed in a way that exhausts it."

Glossary:

PV : Pharmacovigilance

AE : Adverse Events

OUR SOLUTION

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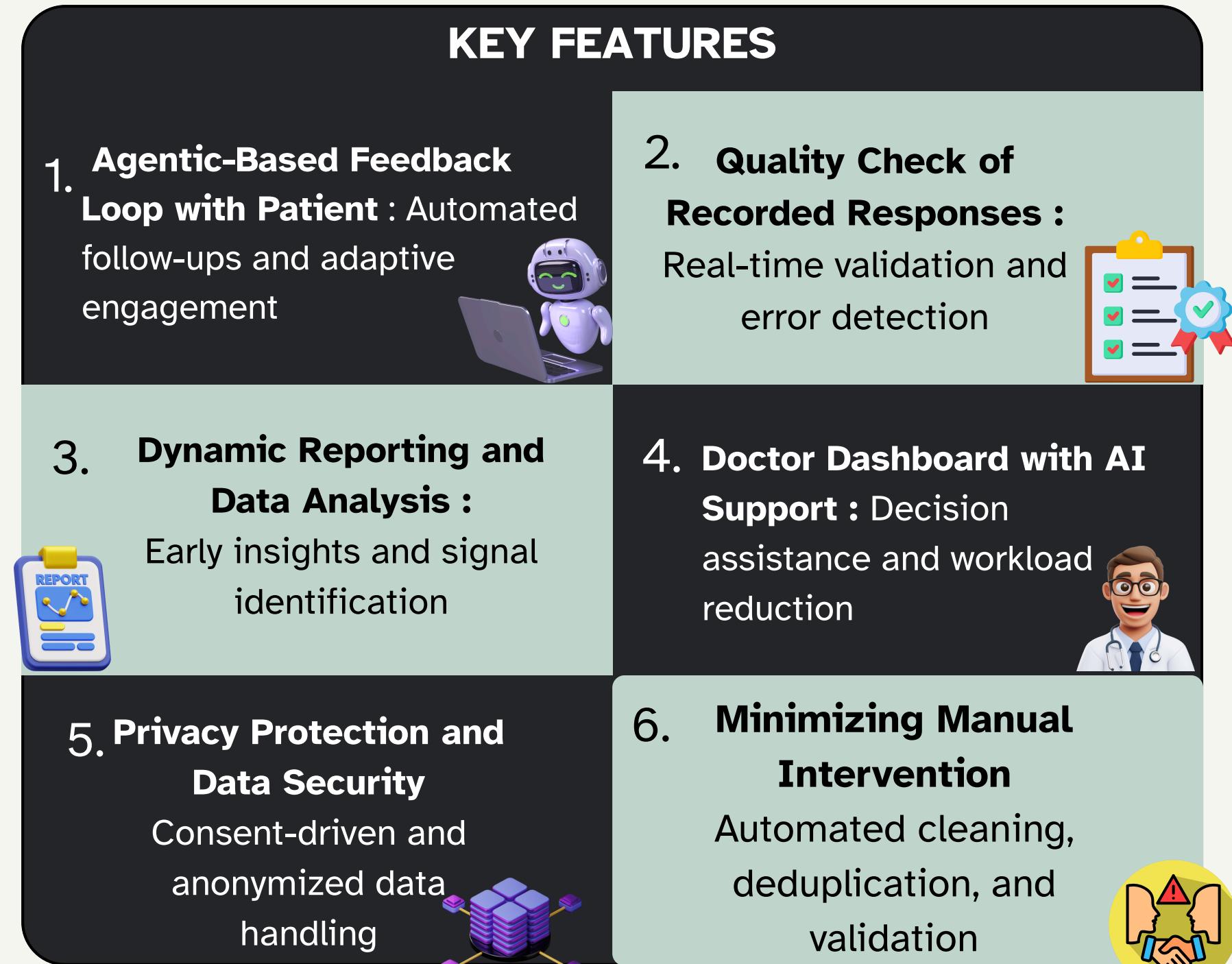
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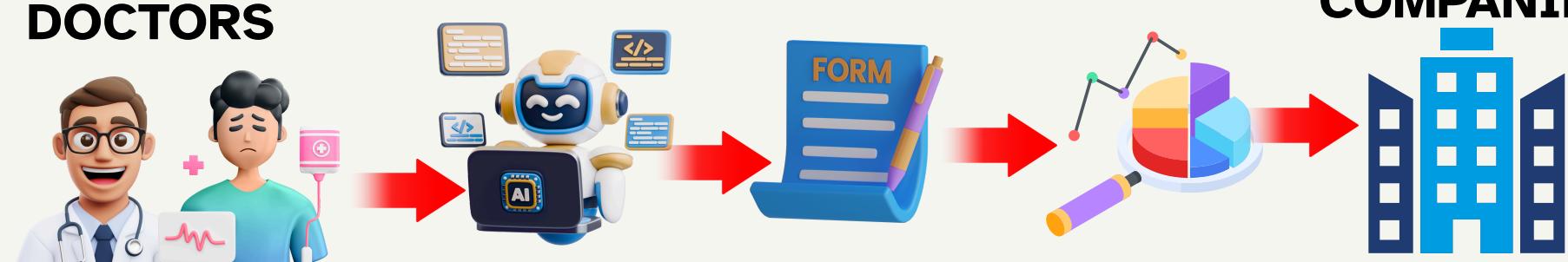
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PATIENTS → AGENT → CLEAN DATA → ANALYTICS → PHARMA COMPANIES
+ DOCTORS



Intelezyer

Transform Drug Usage Data Into Safety Intelligence

Securely collect, analyze, and act on medicine-level data from hospitals, pharmacies, doctors, and pharmaceutical companies. Anonymized insights. No patient identifiers. Compliance-first design.

[Request Demo](#) [See How It Works](#)

Central Medical Center

Comprehensive analytics and hospital management

Urgent Patient Recalls

The following patients recall require immediate attention.

Patient ID	Name	Drug	Recall Reason	Date
PT-21654	James Moore	Nova-Epilepsy_9	come	29/1/2026

Dashboard

Welcome back, Dr. Emily Chen

Active Patients: 22 | High Risk Alerts: 15 | Pending Reviews: 4

Today's Alerts

- Nova-Epilepsy_9**
Patient James Moore (ID: PT-21654) has been recalled. Reason: come
Critical Severity From: Novartis Pharmaceuticals
- John-COVID-19_7**
Routine update for John-COVID-19_7: Minor adverse events reported
Low Severity From: Johnson & Johnson
- Eli-Antifungals_45**

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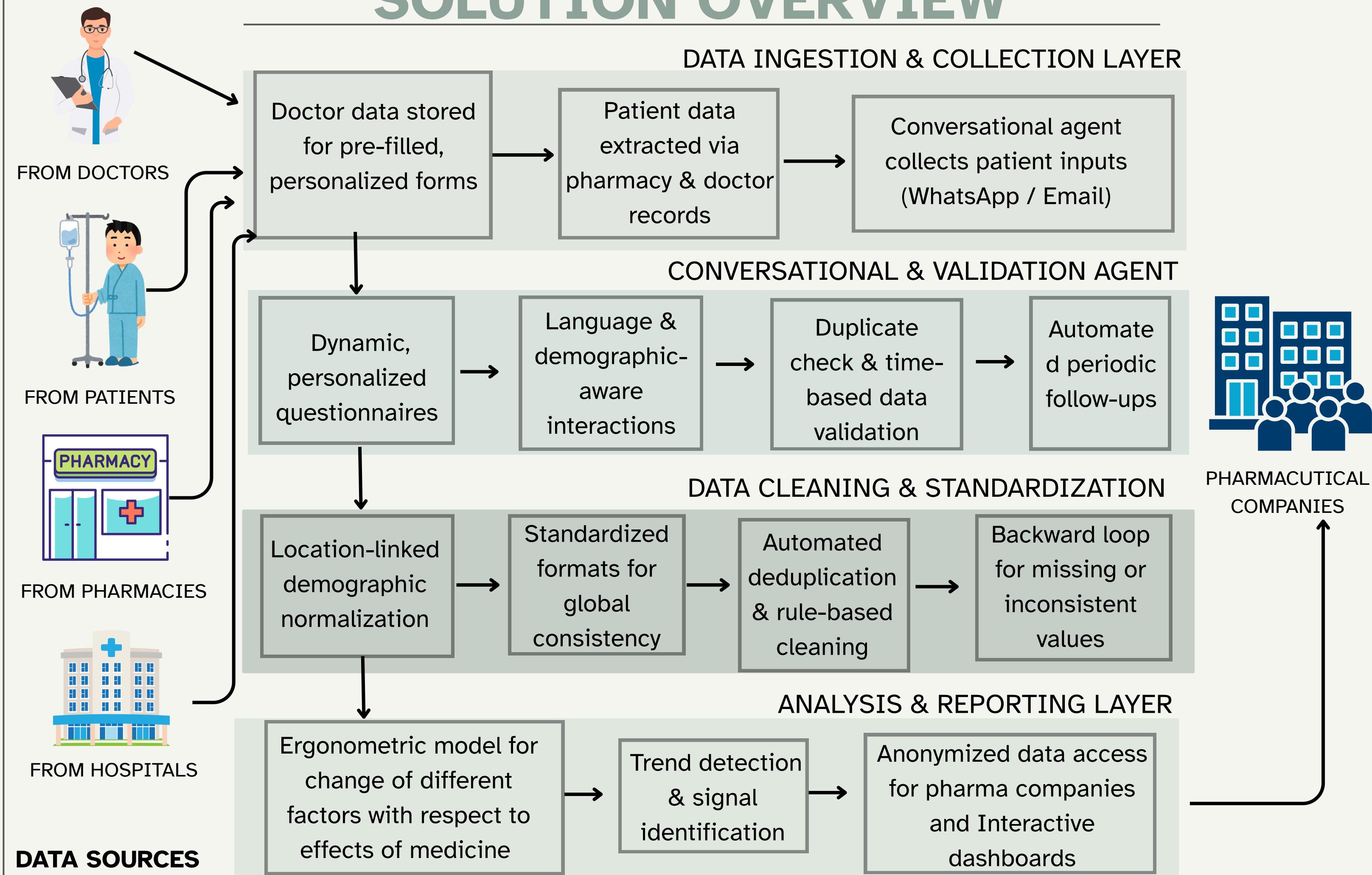
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FRAMEWORKS

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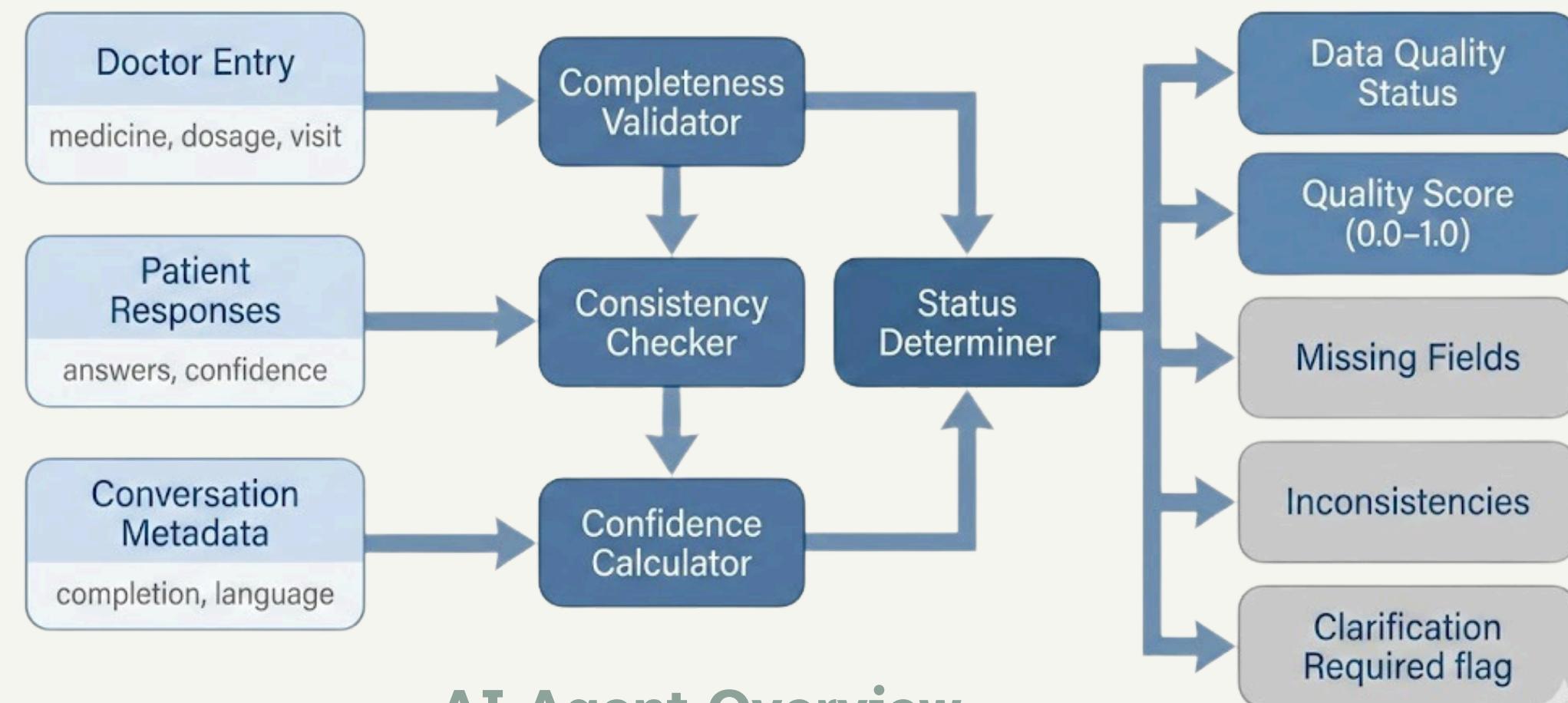
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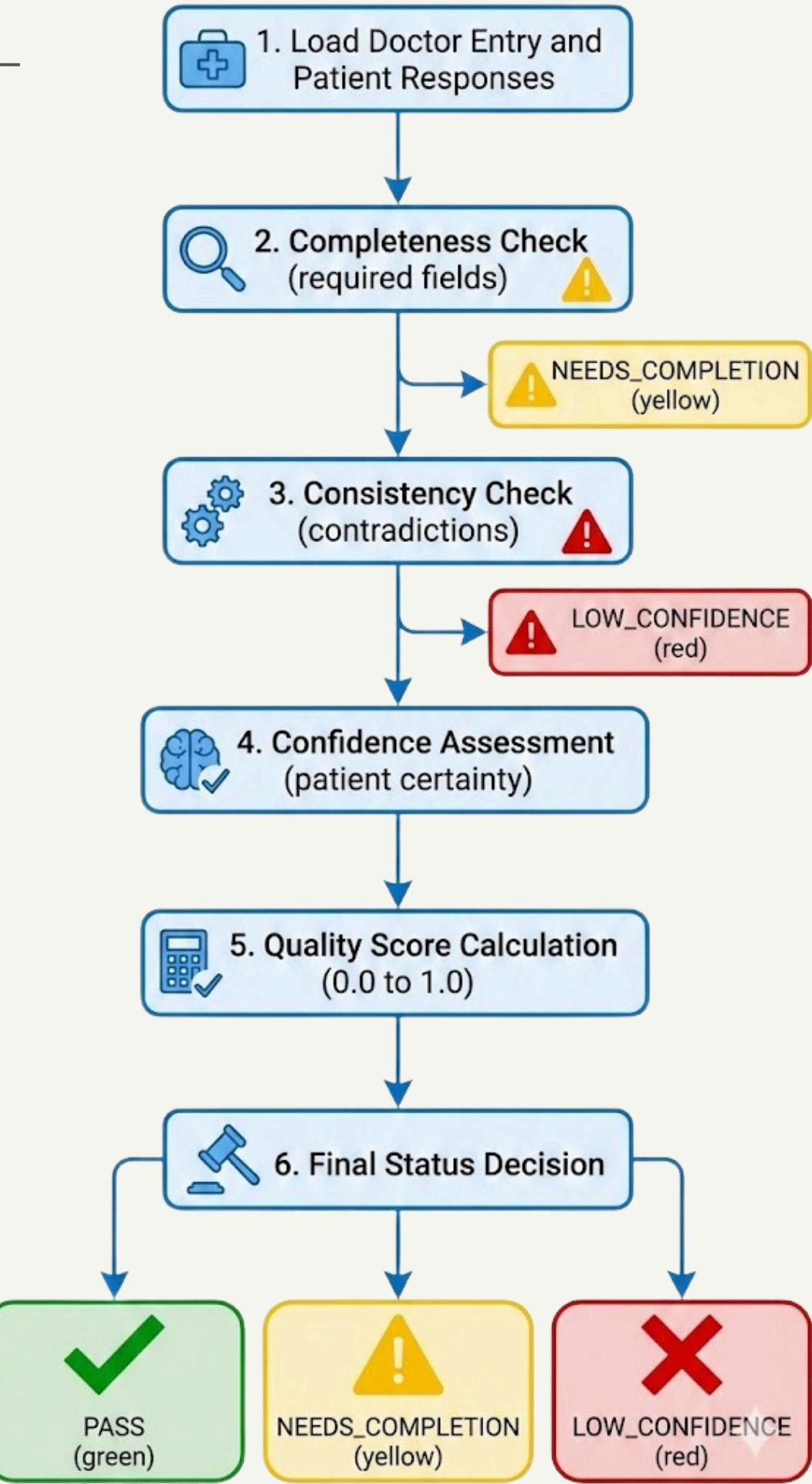
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AI Agent Overview



Quality control AI Agent

TECHNICAL IMPLEMENTATION

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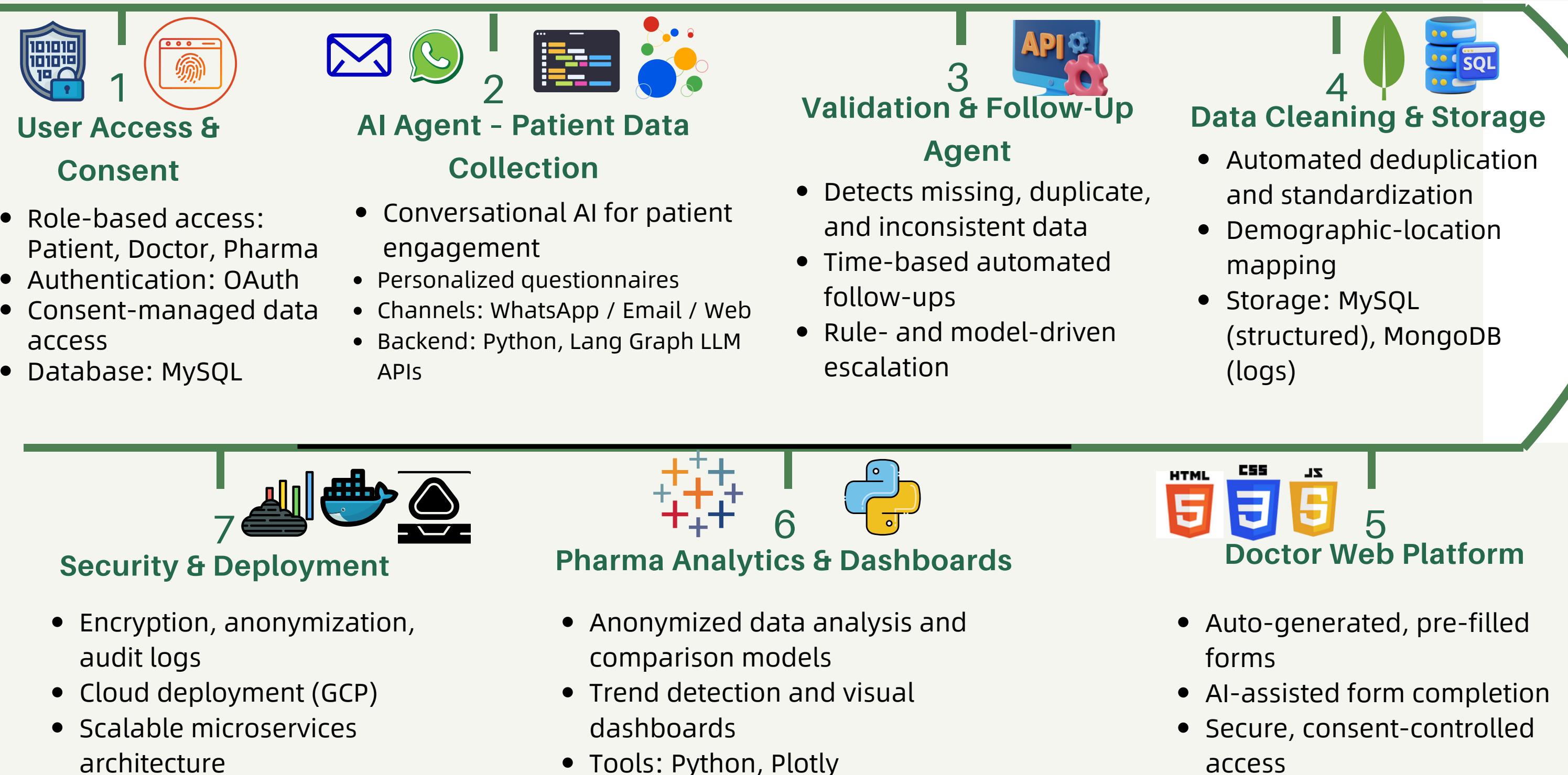
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OUR MVP

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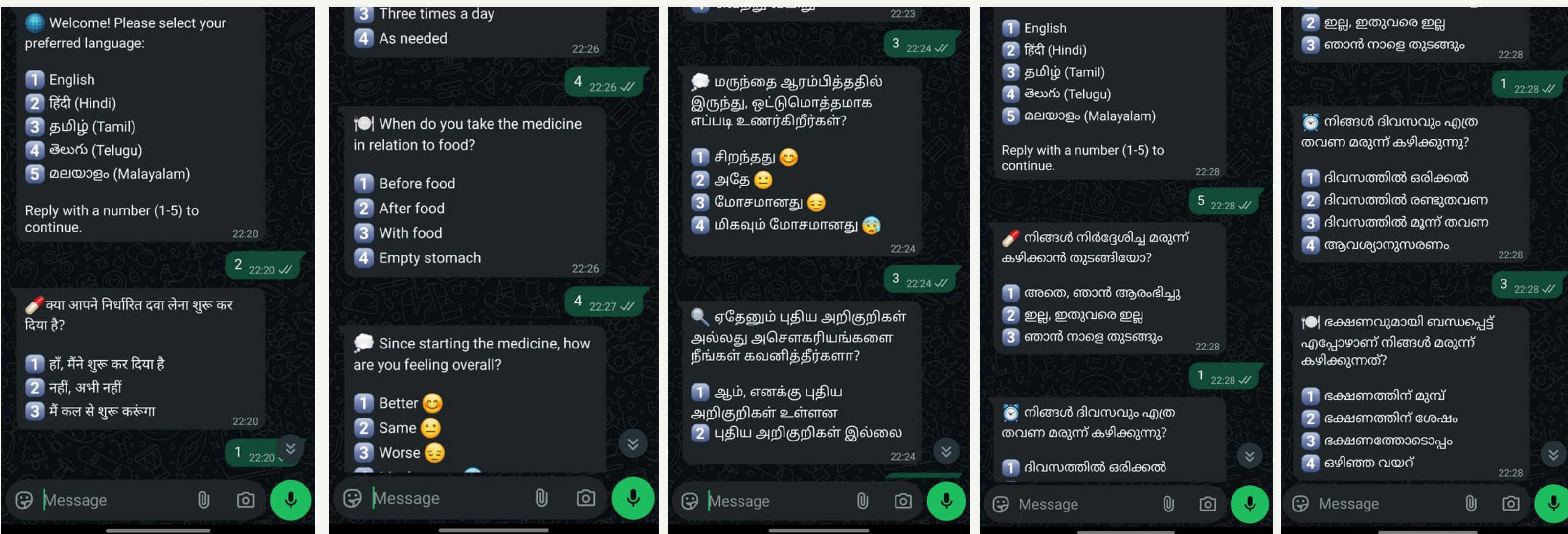
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AI Agent: Gathers patient information through personalized questionnaires tailored to demographics and language via applications like WhatsApp and email.



Website Platform : Provides secure access for doctors and pharmacovigilance teams to patient data and insights. Doctors receive auto-generated forms pre-filled using patient history (where available), while pharmaceutical companies can explore analytical models, compare multiple factors, and view visualizations of standardized data.