



Spyglass Patient Insights GENIE

REVOLUTIONALIZING THE MEDICAL REVIEW PROCESS



Spyglass MTG helps companies tackle the challenges of traditional diagnosis processes by leveraging Microsoft Azure's AI. Our innovative approach, through the Spyglass Patient Insights GENIE Accelerator, automates data extraction and analysis, speeding up medical record reviews. This aims to improve patient care, reduce costs, and help healthcare providers manage an increasing number of patients effectively.

Current Challenges

- **Manual, Time-Consuming Processes:** Delays in patient care due to manual review of medical records
- **High Operational Costs and Scalability Issues:** Manual review causes costs to increase and hinders scalability when patient volume rises
- **Risk of Human Error:** Subject matter fatigue results in errors, negatively impacting patient outcomes

Key Benefits

- **Faster Diagnosis Process:** Reduces the time by up to 80%
- **Lower Costs:** Lowers operational costs and enables more efficient resource allocation
- **Scalable Solution:** Handles growing volumes of documents, ensuring that organizations can scale
- **Strong Security:** Ensures data protection with end-to-end encryption, role-based access, and secure networking

By automating data location and extraction to present to the medical expert with a location notation for faster identification and review, significantly reducing both time and costs while enhancing accuracy and reliability.



Infrastructure Azure
Data & AI Azure
Digital & App Innovation Azure
Modern Work
Security



Technical Overview

Azure Cognitive Services & OpenAI GPT-4 for Automated Diagnosis:

Utilizing Azure Cognitive Services, including Document Intelligence, the solution automatically extracts key information from medical records. Azure OpenAI GPT-4 then analyzes this data to provide actionable insights, aiding healthcare professionals in making faster, more informed decisions.

Data Governance and Security

Employing Azure's data management tools, all medical records are encrypted and securely handled. The solution adheres to strict security standards like HIPAA through the use of Role-Based Access Control (RBAC), end to end encryption and private networking.

Integration with LOB Systems and Azure Data Factory:

Seamlessly integrating with internal document systems via Azure Data Factory workflows, the AI solution ensures smooth data ingestion, storage, and processing.

AI Development and Scalability:

Built on AI Platform using Python, the system offers a flexible development environment. The system is designed to scale with increasing patient data, utilizing load balancing to manage data surges effectively.

Conclusion

The Spyglass Diagnostic Solution that leverages Patient Insights GENIE Accelerator represents a transformative leap in the medical review process. By using Microsoft Azure's AI tools, this solution addresses key challenges faced by healthcare providers, such as time-consuming manual processes, high operational costs, scalability issues, and the risk of human error. This scalable and secure solution enables healthcare providers to manage increasing patient volumes efficiently while maintaining data protection and compliance standards. For more information about this AI-driven solution and its potential to optimize review workflows, improve patient outcomes, and reduce operational costs, contact us today.



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