DeducRx

A.I.-Powered Prescription Processing

Introductions

Mark Gunnels

- Over 20 years of programming experience.
- 12 years in the Healthcare space.

The Problem

- Pharmacists and techs bogged down by administrative tasks
- Valuable time lost to manual prescription processing
- Less time for critical patient care and clinical counseling

Pharmacists' Contributions to Primary Care in the United States Collaborating to Address Unmet Patient Care Needs: The Emerging Role for Pharmacists to Address the Shortage of Primary Care Providers[*]

Patti Gasdek Manolakis, PharmD and Jann B. Skelton, RPh, MBA

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And we need Pharmacists and Pharmacy Technicians desperately.

Introducing DeducRx

- AI-powered solution for streamlined prescription processing
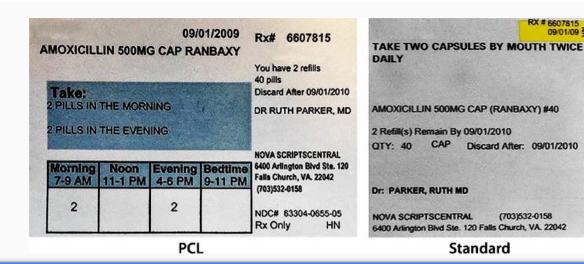- Reduces workload, minimizes errors, improves patient care
- API centered

Patient-Centered Label Directions conversion

Effect of Standardized, Patient-Centered Label Instructions to Improve Comprehension of Prescription Drug Use

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PCL

Standard

Patient Centered Label Directions

Multilingual support

Intelligent data extraction

Take 2 tablets three times daily.

{"frequency":3,"dosage":2}

Decompose Label Directions into their component parts.

Technologies Employed

Models

- Label Direction Decomposition:
  - "ibm/granite-34b-code-instruct"
- Label Direction Conversion:
  - "meta-llama/llama-3-405b-instruct"
- Label Direction Translation
  - "ibm/granite-20b-multilingual"

Language and Platforms

Total Addressable Market (TAM)

1. Number of pharmacies in the US: ~70,000 (including retail, mail-order, and hospital pharmacies)
2. Average annual revenue per pharmacy: ~$4 million
3. Estimated spending on prescription processing technology: 2% of revenue

TAM Calculation:

- 70,000 pharmacies x $4 million x 2% = $5.6 billion annually

Service Addressable Market (TAM)

Factors to consider for SAM:

1. Focus on larger chains and hospitals initially
2. Adoption rate of new technologies in the pharmacy sector
3. Regulatory constraints and integration capabilities

Assumptions:

- Target 30% of the market initially (larger chains and more tech-forward independent pharmacies)
- Expect to capture 20% of this target market in the first few years

SAM Calculation:

- $5.6 billion x 30% x 20% = $336 million annually

Thank you for organizing, hosting, and judging.