

# AI Design & Strategy Medimind

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# AI/ML Method for Medimind

MediMind will rely on two primary AI methods to support preventative care, medication management, and basic illness guidance:

## NLP (Natural Language Processing):

- Understands user messages & symptoms
- Extracts key info (medications, refill dates, goals)

## Classification Models:

- Predicts illness categories from symptoms
- Flags medication needs (on-time / due soon / overdue)
- Categorizes user health goals (exercise, diet, risks)

# Data Acquisition Plan & Model Limitations

## Data Sources:

- **Public datasets:** CDC, WHO, FDA DailyMed, RXNorm
- **Kaggle:** Disease symptom datasets
- **Synthetic data:** Fake symptom logs, medication schedules, calendar reminders

## Limitations / Risks:

- Symptom overlap → misclassification
- Dataset bias affecting fairness
- Privacy risks from email/calendar use
- NLP errors or incorrect suggestions
- Users may rely too heavily on AI