**Model**  
The AI model will be evaluated for accuracy using the following dimensions:

1. **Symptom-to-recommendation accuracy** – How closely the system’s suggested conditions or advice align with diagnoses or guidelines from verified medical databases.
2. **Pharmacy identification accuracy** – How correctly the system identifies and locates pharmacies that stock the recommended medication, based on real-time inventory or partner pharmacy databases.

Performance metrics such as **precision, recall, F1-score, and top-N accuracy** will be used. Additionally, **user feedback** will serve as a post-deployment accuracy measure to continuously improve recommendations.

**Time Series Analysis on Data**

The AI will incorporate time series analysis to study **patterns of reported symptoms over time**.

* **Symptom trends**: Monitoring seasonal illnesses to improve prediction accuracy.
* **Medication demand forecasting**: Predicting which medications will be in higher demand during certain periods

By applying **time series forecasting methods**, the system can proactively adjust recommendations and pharmacy suggestions based on seasonal or location-based health trends.