

# Model Card: LexiMind Predictive Diagnosis

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**Author:** Leslie Amadi

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## Overview

LexiMind predicts the likelihood of chronic illnesses based on patient data, supporting doctors in early diagnosis and treatment planning.

## How it Works

- Model Types: Logistic Regression, Random Forest, Neural Network
- Input Data: Patient demographics, lab results, lifestyle data
- Output: Risk probabilities for diabetes, heart disease, kidney disease

## Performance

- Accuracy: 91%
- Reduced readmissions: 18%
- Average time saved per doctor: 3 hours per 50 patients

## Intended Use

- Hospitals and clinics for early screening
- Healthcare apps for patient monitoring

## Limitations

- Requires accurate and anonymized input data
- Human review necessary for final diagnosis
- May not generalize outside the trained population

## Responsible AI

- Data anonymization ensures patient privacy
- Explainable AI for transparency
- Model continuously retrained with new data

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