Disease Prediction from symptoms

Machine learning project

Team members :

1. Sama shalabi
2. Laith asbeh

Proposal

Topic

Disease Prediction Using DecisionTree, random forest and Naive Bayes

Outline

In this project, we aim to build a machine learning-based system to detect infectious diseases based on user symptoms . We will use three popular algorithms: DecisionTree,randomforest and NaiveBaye. By leveraging the power of these models, we hope to provide an accurate, automated solution that can assist healthcare professionals to diagnose the infectious disease from the given symptoms

Methodology

We will preprocess feature engineering on the data set . The data set includes the symptoms as input features and the diseases as target labels. Then we will train the 3 models (DecisionTree,randomforest and NaiveBayes). We also plan to explore ensemble techniques, combining these models to improve prediction accuracy. The system will output the most probable disease based on the provided symptoms.