VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-590018, Karnataka

PROJECT ABSTRACT

Submitted by

Rahul M (1DT15CS091)
Surya Gangaraj K (1DT15CS115)
Mohit Surana(1DT15CS069)
Sanketh Bennur(1DT15CS102)

DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT

22 Mile , Udayapura Opp. To Art of Living Kanakapura Road, Bengaluru - 500082

Department of Computer Science and Engineering

Remarks:

Signature of the Project Coordinator

Signature of the HOD

Medical Diagnosis Using Machine Learning

Summary:

Disease prediction is one of the critical task while designing medical diagnosis software. Artificial intelligence and neural network are two major techniques which are already used to solve this type of medical diagnosis problem. Recently, Machine Learning techniques have been successfully utilized in a different applications including to assist in medical diagnosis. It is very effortless and on time process for patients to analyze disease based on clinical and laboratory symptoms with appropriate data and give more efficient result for specific disease. In this paper, first we have observed the current scenario of medical diagnosis system with different data mining techniques and later we have proposed an algorithm to predict the Swine Flu disease based on several attributes.

Main contributions and strengths:

- Reduces complexity in diagnosis process.
- Logic is made clearer and provides a hierarchical structure.
- Uncertainty occurred by different diagnosis system is eliminated.
- Problem occurred in other diagnosis system where grammatical labels comprehend to actual code in a period a numbers of values sensible process can be solved using this approach.

Main Weaknesses:

- System is only using one data set for validation which does not predictable enough to generate outcomes.
- System is only exploring the common predictable performance of their models without considering the F-score and precision as measures.
- Most studies do not provide statistical test results to demonstrate the level of significance of their experimental results.
- Most studies related to ensemble classifier do not compare the performance difference between individual classifiers and an ensemble classifier consisted of individual classifiers.

Other Interesting thoughts raised by the paper: like,

- In normal medical diagnosis system, it predicates the disease based on the patients symptoms and laboratory data before analyzing the disease.
- In medical system, accuracy of the DSS is more decisive.