Abstract

Web applications have demonstrated their assistance as helping tools for therapeutic specialists, experts and patients as well. The uses of the Internet-based innovations and the ideas of fuzzy expert system (FES) have made new strategies for sharing and circulating information. This study intends to build rule based online fuzzy expert system which assist people around the globe during the time spent management of diabetes mellitus. The proposed work presents web based expert system (Web-FESSRADM) for individuals who can check their diabetes risk and for doctors, practitioners to assess diabetes risk online. In the Web-FESSRADM development fuzzy logic approach is utilized to determine the risk of diabetes. Open source software development environment is used to develop and actualize proposed work.

References

Diabetes mellitus is a chronic metabolic disease characterized by high blood sugar levels. It affects millions of people worldwide and can lead to serious health complications if left untreated. Early detection and management are crucial in preventing or minimizing these complications. Over the years, researchers have developed various decision support systems to aid in the diagnosis and treatment of diabetes.

1. **Web-based Fuzzy Expert System for Symptomatic Risk Assessment of Diabetes Mellitus**


**Index Terms**

Computer Science

Fuzzy Systems
Keywords