Expert System Application for Early Detection of Malnutrition Disorders in Toddlers Based on Website Using Naïve Bayes Method Counselor : Trismayanti Dwi P, S.Kom, M.Cs

Mokhamad Farhan Abdillah Study Program Informatics Engineering Study Program Majoring of Information Technology

ABSTRACT

Malnutrition in toddlers has pathophysiological impacts, including protein-energy deficiency, anemia due to iron deficiency, iodine deficiency disorders, and vitamin A deficiency. These conditions lead to various consequences such as growth disorders, decreased immune resistance to infections, lower intelligence levels, reduced physical abilities, impaired physical and mental development, stunting, blindness, and even death in toddlers. The causes of malnutrition can be direct or indirect. Indirect causes include inadequate food intake in terms of quantity and quality, infectious diseases, congenital disabilities, or medical conditions such as cancer. Meanwhile, direct causes involve household food availability, behavior, and healthcare services. In addition to health factors, socio-economic factors such as poverty, low education, food availability, and employment opportunities also contribute as major issues in malnutrition. This study proposes the development of an expert system based on the Naïve Bayes method to identify malnutrition in toddlers.

Keywords: Toddlers, Expert System, Malnutrition