

ABSTRAK

Gangguan tumbuh kembang anak yang bersifat kontinu yang di mulai sejak dalam kandungan hingga dewasa, perkembangan anak akan optimal jika terdapat interaksi sosial yang sesuai dengan kebutuhan anak di berbagai tahap perkembangannya. Gangguan tumbuh kembang anak terdapat masa-masa kritis, dimana masa tersebut diperlukan suatu simulasi yang berfungsi agar potensi anak berkembang.

Pada penelitian ini akan di rancang sebuah sistem pakar diagnosa gangguan tumbuh kembang anak dengan menggunakan metode *Naive Bayes Classifier*, dimana sistem ini akan memberikan informasi mengenai diagnosa gangguan tumbuh kembang anak berdasarkan gejala-gejala dari setiap gangguan yang dialami oleh anak. Sehingga dapat membantu masyarakat dalam penanganan gangguan tumbuh kembang anak.

Berdasarkan 31 data subjek yang di ambil di Klinik Anak Hebat Mandiri dari anak yang terdiagnosa gangguan tumbuh kembang anak , data diuji dengan sistem dan divalidasi dengan pakar (Psikologi) diperoleh tingkat kesesuaian sebesar 87%.

Kata kunci : Sistem pakar, Diagnosa Tumbuh Kembang Anak, *Naive Bayes Classifier*

ABSTRACT

Children's growth disorder may happen continuously from conception to adulthood, an optimal growth and development would be achieved if there are appropriate social interactions which cater to the child's needs in each stage of development. Children's growth and development disorder could take place during critical times, therefore, a simulation is needed to determine the times in order to maximize children's growth and development potentials.

In this research, an expert system for children's growth and development disorder diagnosis is developed using Naïve Bayes Classifier method, this system is expected to provide information about growth and development disorder suffered by children based on symptoms of each disorder that may come up. It is expected that the system could help the society to better treat children's growth disorder.

Based on 31 subject data obtained at 'Anak Hebat Mandiri' Clinic from children diagnosed with growth disorder, after getting assessed with the system and validated by an expert (a psychologist), a compliance level was achieved at 87%.

Keywords: *expert system, children's growth and development diagnosis, Naive Bayes Classifier*

