

# A MULTILAYER PERCEPTRON NETWORK FOR THE FOETAL WEIGHT PREDICTION

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**Abstract.** The paper presents a regression model based on multilayer perceptron (MLP) network for the foetal weight prediction. Finally the results of the MLP-network are compared with other models; the conclusion is that the MLP-model predicts the foetal weight spanning a range from 1500 to 4500 grams with an overall absolute relative error of a reasonable 6.2%.

**Keywords:** Artificial Neural Network, Pattern Recognition, Bio-Medical Engineering Applications, Multivariate Nonlinear Regression Model; Prediction, Foetal Weight

**C.R. Categories:** C.1.3; I.5.1