

عنوان مقاله:

Suggested methods for prediction using semiparametric regression function

محل انتشار:

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خلاصه مقاله:

Ferritin is a key organizer of protected deregulation, particularly below risky hyperferritinemia, by straight immunesuppressive and pro-inflammatory things. We conclude that there is a significant association between levels of ferritin and the harshness of COVID-19. In this paper, we introduce a semi-parametric method for prediction by making a combination of NN and regression models. So, two methodologies are adopted, Neural Network (NN) and regression model in designing the model; the data was collected from a nursing home hospital for period ۱//۷/۲۰۲۱- ۲۳/۷/۲۰۲۱, the sample size is 100 covid positive patients with 1Y females \& \mathcal{K} males out of \Delta00, while YF female \& YF male are non-COVID out of $\Delta \circ$. The input variables of the NN model are identified as the ferritin and a gender variable. The higher results precision is attained by the multilayer perceptron (MLP) networks when we applied the explanatory variables as the inputs with one hidden layer, which covers " neurons, as the planned many hidden layers are with one output of the fitting NN model which is used in stages of training and validation beside the actual data. We used a portion of the actual data to verify the behavior of the developed models, we find out that only one observation is a false predictive value. This means that the estimation model has significant parameters to forecast the type of Covid cases .((Covid or no Covid

كلمات كليدى:

Semi-parametric method, Neural Network models (NN), regression, Ferritin level, Covid 19, multilayer perceptron ((MLP

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