

Decision trees to predict the nutritional status of children in Municipal Education Centers at Lavras, MG, Brazil

Paula Ribeiro Santos ¹, Luiz Felipe de Paiva Lourenção ², Míriam Monteiro de Castro Graciano ³, Stela Márcia Pereira ⁴ Izabela Regina Cardoso de Oliveira ⁵

Abstract: *In this work we study which factors are associated to the food frequency and insecurity of children. For this, decision trees were obtained using the rpart and rpart.plot R packages. The method was successfully employed and pointed out interesting insights from the practical point of view.*

Keywords: Machine learning, food frequency, food insecurity.

¹Mestranda em Estatística e Experimentação Agropecuária, UFLA. e-mail: paullasant_s@hotmail.com

²Mestrando em Ciências da Saúde, UFLA. e-mail: luizfelipepaiva03@gmail.com

³Departamento de Ciências da Saúde, DSA/UFLA. e-mail: miriam.graciano2@dsa.ufla.br

⁴Departamento de Ciências da Saúde, DSA/UFLA e-mail: stelapereira@dsa.ufla.br

⁵Departamento de Estatística, DES/UFLA. e-mail: izabela.oliveira@ufla.br