یادگیری ماشین

(Regression)

محمد دهقاني

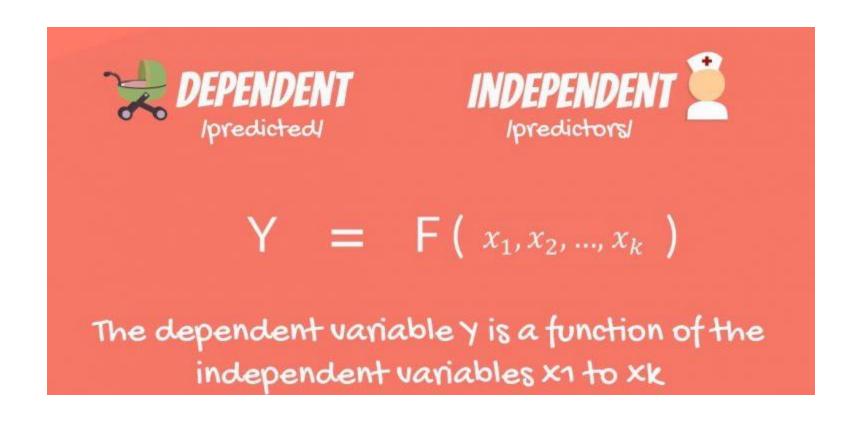


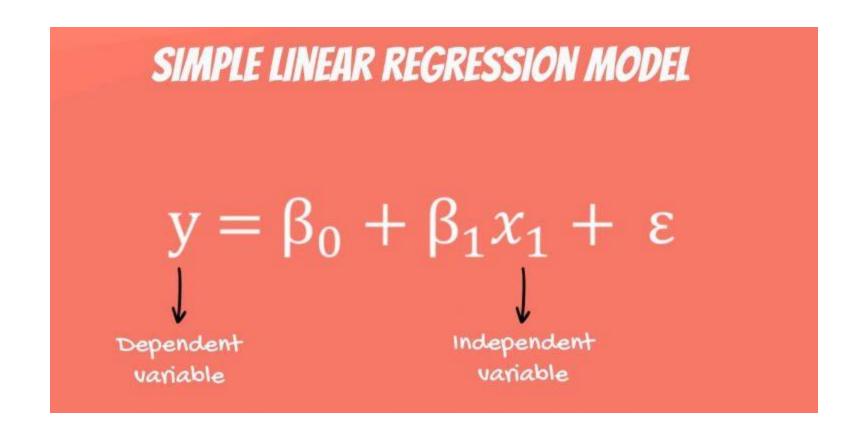
آنچه در این جلسه یاد خواهیم گرفت:

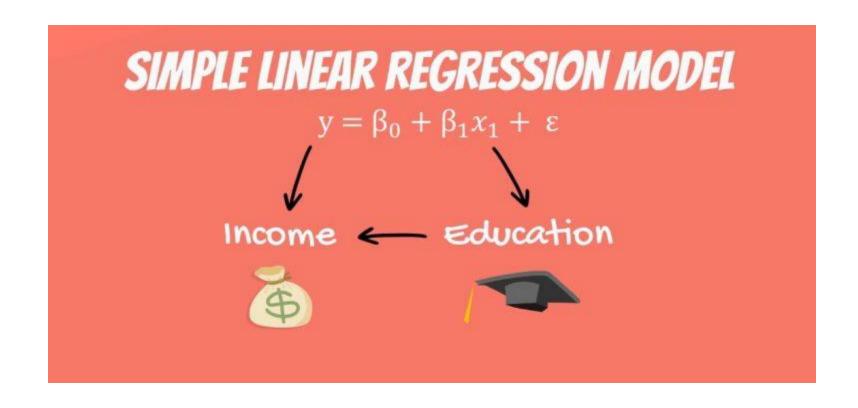
۱. بررسی الگوریتم Linear Regression ۲. بررسی کاربردهای مختلف رگرسیون ۳. بررسی الگوریتم Logistic Regression

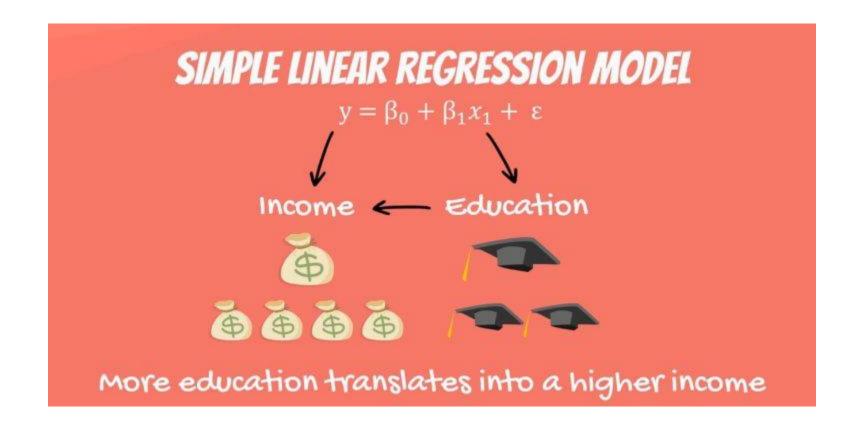
MACHINE LEARNING SUPERVISED UNSUPERVISED LEARNING **LEARNING** CLASSIFICATION REGRESSION CLUSTERING Support Vector Machines K-Means, K-Medoids Fuzzy C-Means Linear Regression, GLM Discriminant SVR, GPR Hierarchical Analysis Naive Bayes Ensemble Methods Gaussian Mixture Hidden Markov Model Nearest Neighbor **Decision Trees** Neural Networks Neural Networks Neural Networks

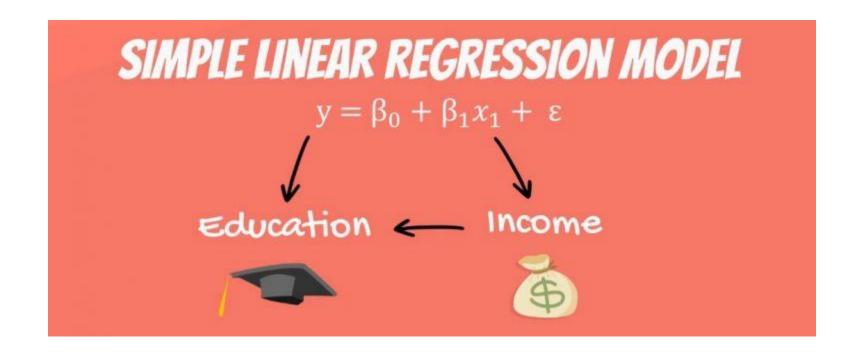
یادگیری ماشین

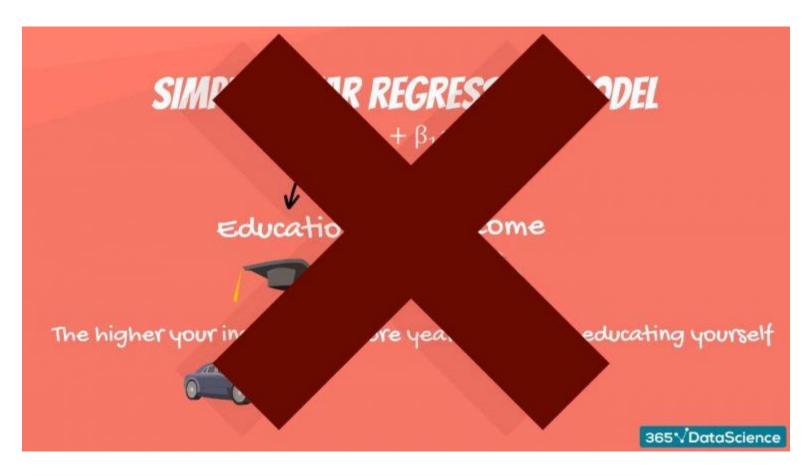


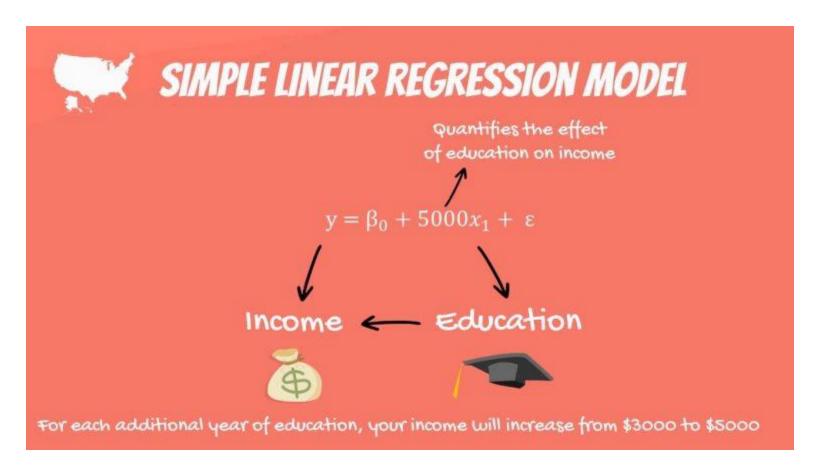


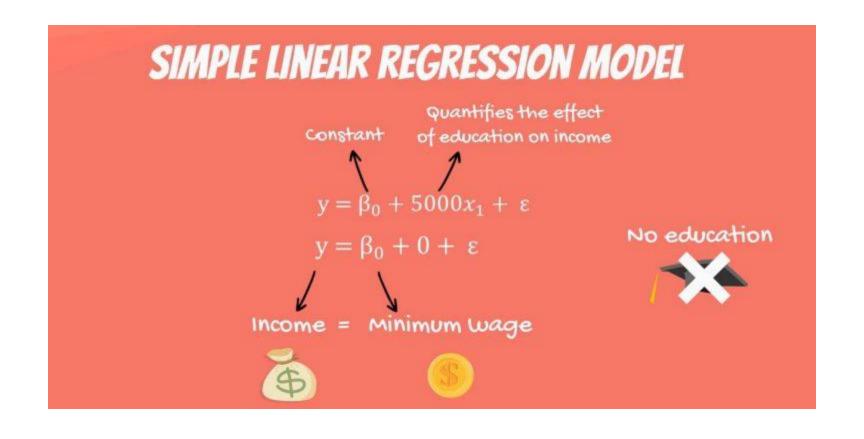


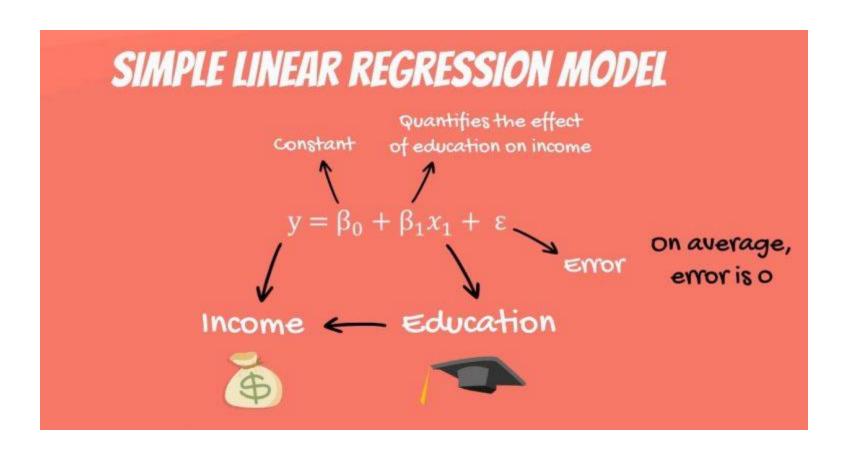






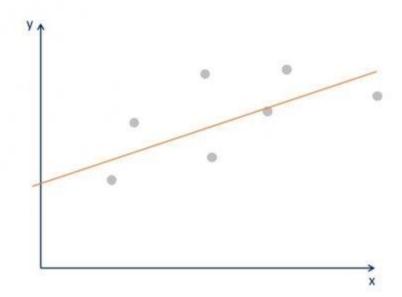






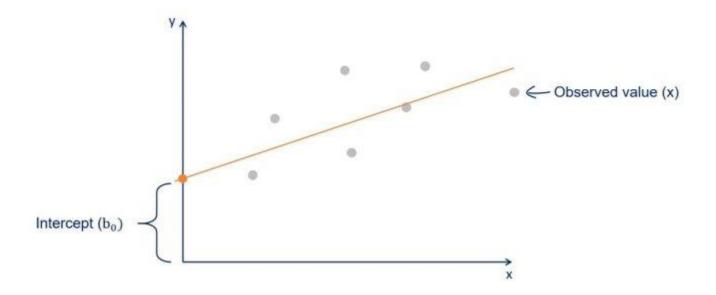
Linear regression model. Geometrical representation

$$\hat{y}_i = b_0 + b_1 x_i$$

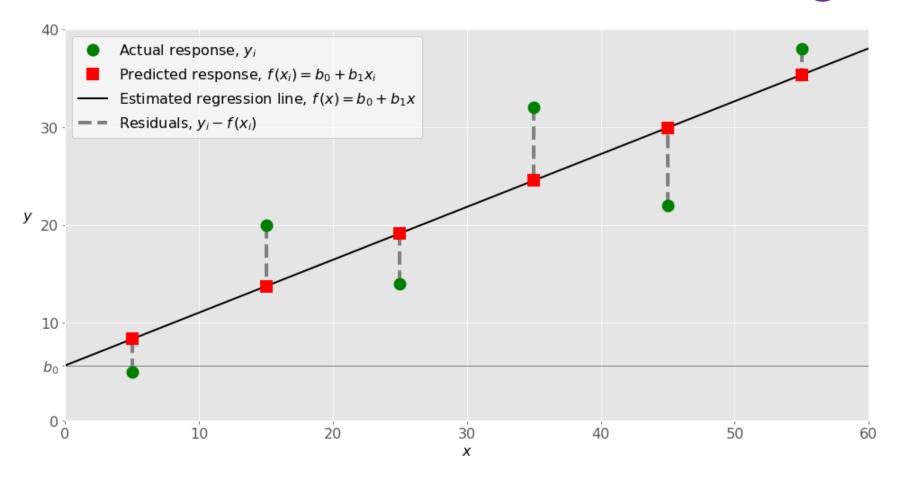


Linear regression model. Geometrical representation

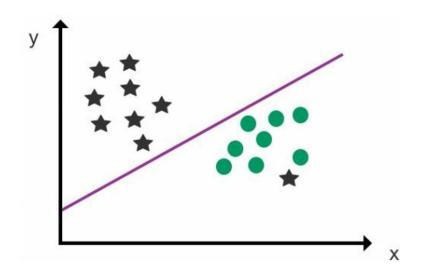
$$\hat{\mathbf{y}}_{\mathbf{i}} = \mathbf{b}_0 + \mathbf{b}_1 \mathbf{x}_{\mathbf{i}}$$



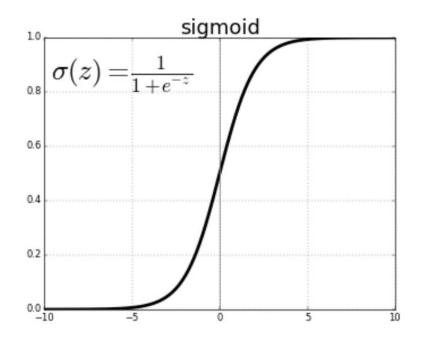
$$Y = aX_1 + bX_2 + \dots + nX_n + C$$



Logistic Regression



Sigmoid



#DONTFORGETUS

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