Evaluation

January 14, 2025

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[]: ['''
         R-Squared -->
         R-Squared is a statistical metric that measures the proportion of variance \Box
      in the dependent variable
         (target) that is explained by the independent variable(s) (features) in the \Box
      \hookrightarrow regression model.
         It is also known as the coefficient of determination.
[]: '''
         Interpretation -->
         R^2 = 1: Perfect fit. The model explains all the variance in the target \Box
      \hookrightarrow variable.
         R^2 = 0: The model explains none of the variance; it performs no better
      ⇔than a simple mean of the target variable.
         R^2 < 0: The model performs worse than the baseline (mean of the target).
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[]: '''
         When to Use R-Square -->
         You are working with regression models.
         You want to understand the proportion of variance explained by the features.
         Comparing different models with the same data.
         Avoid relying solely on R-Square -->
         The model is non-linear or heavily complex.
         Predictive accuracy is the primary concern.
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```