**WINE QUALITY CLASSIFICATION USING DECISION TREE**

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**Abstract**

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**Key words:** blab la bla

**INTRODUCTION**

Wine quality assessment plays an important role in the wine industry, influencing customer preferences, pricing, and brand reputation. Traditional wine tasting by sommeliers and experts ensures quality control, but it is subjective and may vary between individuals. A reliable and automated method for evaluating wine quality can improve consistency and efficiency in the industry.

Manually assessing wine quality presents several challenges, including human bias, variability in taste perception, and the high cost of expert evaluation. Furthermore, sensory analysis is time-consuming and impractical for large-scale production, making it difficult for winemakers to maintain quality. These limitations shows the need for objective and data-driven approaches to wine quality assessment.

Machine Learning offers a solution to this problem by leveraging data to make accurate and repeatable predictions. Decision Trees, in particular, are a powerful Machine Learning technique that can classify wine quality based on measurable phy