### QF624-2025-W1

Number of participants: 37

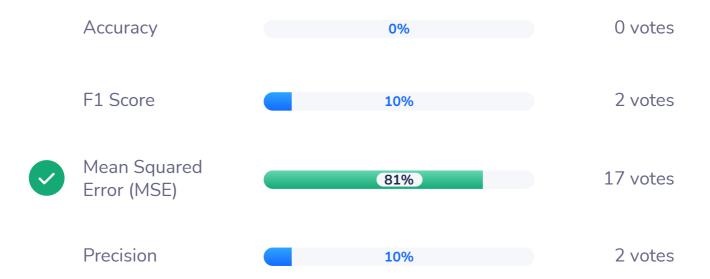
In the context of supervised learning, consider a scenario where you are developing a model to predict the price of houses in a city based on features such as square footage, number of bedrooms, proximity to city center, and age of the property. After training your model on a dataset comprising these features and the corresponding house prices, you intend to evaluate its performance. Which of the following evaluation metrics would be most appropriate for assessing the performance of

your model, considering the

task is a regression problem?

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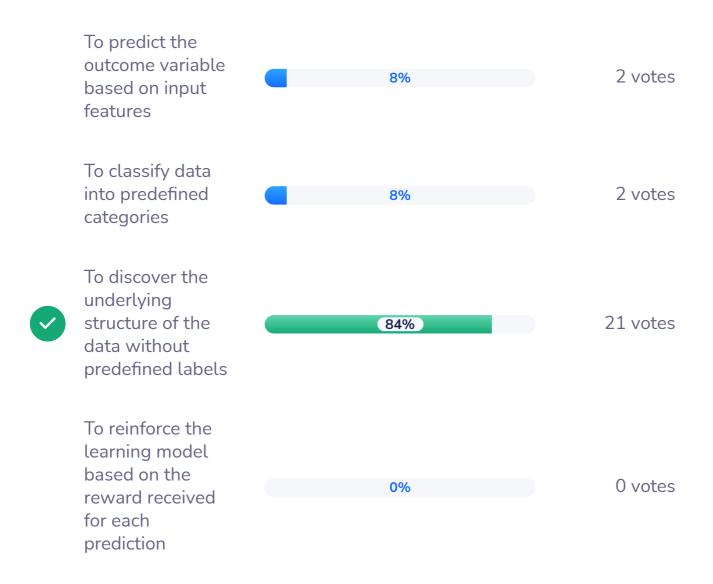
**17 correct answers**out of 21
respondents





# Which of the following best describes the primary goal of unsupervised learning in the context of machine learning?

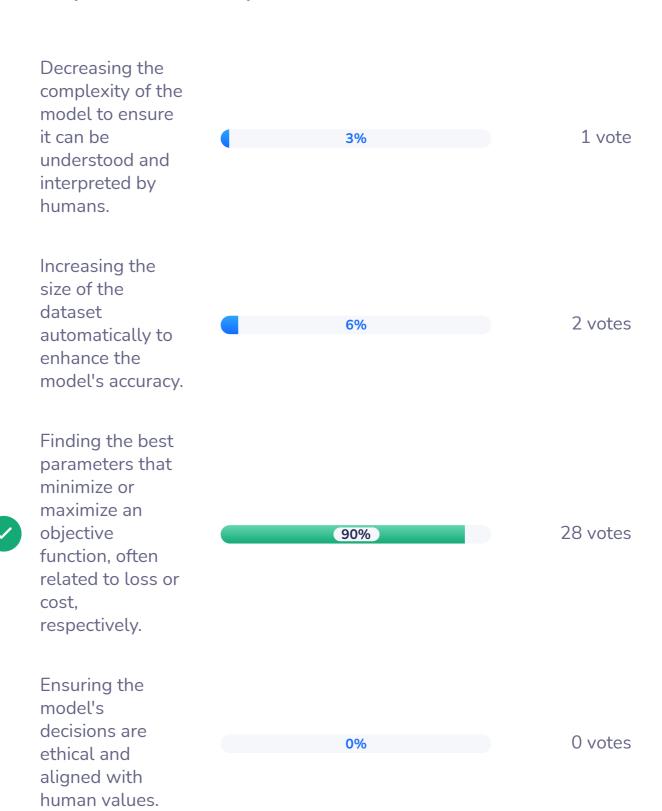
#### **21 correct answers** out of 25 respondents



## Optimization algorithms in machine learning are crucial for improving model performance by:

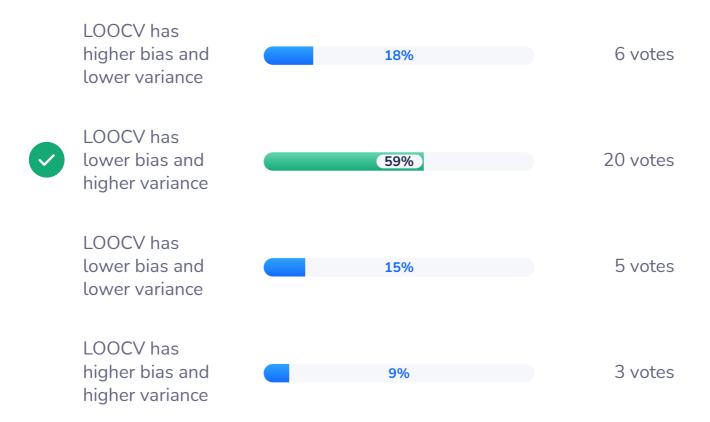
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### **28 correct answers**out of 31 respondents



Compared to 10-fold cross validation, what is the typical effect of using leave-one-out cross validation (LOOCV) in terms of the bias and variance of the error estimate?

**20 correct answers** out of 34 respondents



Which learning paradigm is most closely associated with dealing with the exploration versus exploitation dilemma and the credit assignment problem?

**24 correct answers** out of 33 respondents

