Supervised Learning

* Historical data
* Predict label / value

e.g., 48 people in total in the classroom

assumption: we have the data of 47 people and their application approval history

goal: predict whether the person (48th) application will be approved not. ---- classification / categorization problem



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| age | House | job | education | credit | … | Criminal | Label / class |
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| location | log | altitude | Humidity | Wind speed | … | Dew point | temp |
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Supervised learning (label for each data)

* Classification (label is categorical data)
* Regression (numerical data)

