# THE MACHINE LEARNING CANVAS

# **Designed for:** California Housing Price

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| PREDICTION TASKThe project tries to predict the prices of realties from California based on some parameters. | DECISIONSThe model predictions influence the prices from a web application that lists or sell properties from the real estate market. So every week the prices are updated based on the model predictions. | VALUE PROPOSITIONThe end users are people who want to buy or rent houses on California, so that this model will be used for applications to predict prices of the houses based on some parameters. | DATA COLLECTIONThe data is proccessed every day when someone uploads the raw data to an S3 folder. So when the raw data is uploaded, a pre-processing lambda function is triggered and all the raw data is proccessed and saved in another folder from the S3 bucket. | DATA SOURCESThe raw data can come from other rent or auction applications by using a web scrapping or getting real estate API, such as Estated Data, Mashvior or Realty Mole. |
| MONITORING | MAKING PREDICTIONSThe predictions are made in batch, so the model is retrained every day at dawn, when the application clients don’t require too much from the model. |  | BUILDING MODELSUsing the data proccessed data, the model is retrained every saturday night at 3AM as the database from the application is updated, so that the model can fit the users from the app | FEATURESMedian income, housing median age, total\_rooms, ocean proximity, total\_rooms, total\_bedrooms, population and households. |
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