

CSC15004 - Statistical Machine Learning

Multivariate linear regression

Lab assignment 1

21CNTThuc - 21127135 - Diep Huu Phuc

config.json

- **alpha** – float – The learning rate for the gradient descent algorithm (GDA). It determines how big of a step to take in the direction that minimizes the cost function.
- **iters** – int – The maximum number of iterations to run GDA.

model.json

- **theta** – [float] – The weights, obtained after model training, of each variable. The first entry is θ_0 associated with a constant of 1, while the rest corresponds to the given variables, i.e., *size* and *number of bedrooms*.

price.json

- **size (square feet)** – int – The sample size to test the trained model.
- **number of bedrooms** – int – The sample bedroom count to test the trained model.
- **price (\$)** – float – The prediction outputted by the trained model, with the provided sample inputs.