

Objective

- Objective: to learn and practise linear regression models with scikit-learn
- Download MIS710 Lab3.ipynb and the Housing3 dataset from the unit site in the CloudDeakin system
- Upload it to the MIS710 folder on your Google drive and open MIS710 Lab3.ipynb
- Follow the instructions

Lab 3: Task 1

- To predict medical insurance cost.
- The dataset was slightly modified to allow you deal with missing data. Download the modified data at the unit site.
- Data:
- area
- basement
- bedrooms
- hotwaterheating
- bathrooms
- airconditioning

stories

- parkingprefarea
- mainroad
- furnishingstatus
- guestroom
- price
- Source: https://www.kaggle.com/datasets/yasserh/housing-prices-dataset

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Lab 3: Task 2 Optional exercise

- To predict medical insurance cost.
- Data:
- age: age of primary beneficiary
- sex: insurance contractor gender, female, male
- bmi: Body mass index, providing an understanding of body, weights that are relatively high or low relative to height,
- objective index of body weight (kg / m ^ 2) using the ratio of height to weight, ideally 18.5 to 24.9
- children: Number of children covered by health insurance / Number of dependents
- smoker: Smoking
- region: the beneficiary's residential area in the US, northeast, southeast, southwest, northwest.
- charges: Individual medical costs billed by health insurance
- Source: https://www.kaggle.com/datasets/mirichoi0218/insurance