

Chapter 3: ANN

Ex2: Medical records for Pima Indians

Hãy áp dụng ANN cho bài toán xác định một người có bị tiểu đường hay không?

 https://www.kaggle.com/kumargh/pimaindiansdiabetescsv (https://www.kaggle.com/kumargh/pimaindiansdiabetescsv)

This dataset describes the medical records for Pima Indians and whether or not each patient will have an onset of diabetes within five years.

Fields description follow:

- preg = Number of times pregnant
- plas = Plasma glucose concentration a 2 hours in an oral glucose tolerance test
- pres = Diastolic blood pressure (mm Hg)
- skin = Triceps skin fold thickness (mm)
- test = 2-Hour serum insulin (mu U/ml)
- mass = Body mass index (weight in kg/(height in m)²)
- pedi = Diabetes pedigree function
- age = Age (years)

class = Class variable (1:tested positive for diabetes, 0: tested negative for diabetes)

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In [1]: # from google.colab import drive
        # drive.mount("/content/gdrive", force_remount=True)
In [2]: # %cd '/content/adrive/My Drive/LDS8 DeepLearning/Practice/Chapter3/'
In [3]:
        import warnings
        warnings.filterwarnings('ignore')
In [4]: | # Import
        import tensorflow as tf
        from tensorflow import keras
        from tensorflow.keras import Sequential
        from tensorflow.keras.layers import Dense
        import numpy
In [5]: | print(tf.__version__)
        print(keras.__version__)
        2.5.0
        2.5.0
```