Linear regression with stochastic gradient gradient

sepal\_length,sepal\_width(model with L2 Regularization)

Final Mean Squared Error : 10.057881933180404

Error using L2 Regularization 41.67603750537499

sepal\_length,petal\_length

Final Mean Squared Error : 19.300318124263587

sepal\_length,petal\_width

Final Mean Squared Error : 2.017642354780309

sepal\_width,sepal\_length

Final Mean Squared Error : 37.731721960964684

sepal\_width,petal\_length

Final Mean Squared Error : 14.554485397577976

sepal\_width,petal\_width

Final Mean Squared Error : 1.2896427423318981

petal\_length,sepal\_length

Final Mean Squared Error : 35.472313304338485

petal\_length,sepal\_width

Final Mean Squared Error : 9.300961009324116

petal\_length,petal\_width

Final Mean Squared Error : 2.356135743675184

petal\_width,sepal\_length

Final Mean Squared Error : 31.113229079296875

Petal\_-wdith, sepal\_width

Final Mean Squared Error : 9.0236914095489

petal\_width,petal\_length

Final Mean Squared Error : 13.836872350547251

Logistic Regression

predict petal length given sepal length and sepal width

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predict sepal length given petal length and sepal width

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predict sepal width given sepal width and petal length

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predict petal width given sepal length and sepal width

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>epoch=78, lrate=0.010, error=5.601

>epoch=79, lrate=0.010, error=5.601

>epoch=80, lrate=0.010, error=5.601

>epoch=81, lrate=0.010, error=5.601

>epoch=82, lrate=0.010, error=5.601

>epoch=83, lrate=0.010, error=5.601

>epoch=84, lrate=0.010, error=5.601

>epoch=85, lrate=0.010, error=5.601

>epoch=86, lrate=0.010, error=5.601

>epoch=87, lrate=0.010, error=5.601

>epoch=88, lrate=0.010, error=5.601

>epoch=89, lrate=0.010, error=5.601

>epoch=90, lrate=0.010, error=5.601

>epoch=91, lrate=0.010, error=5.601

>epoch=92, lrate=0.010, error=5.601

>epoch=93, lrate=0.010, error=5.601

>epoch=94, lrate=0.010, error=5.601

>epoch=95, lrate=0.010, error=5.601

>epoch=96, lrate=0.010, error=5.601

>epoch=97, lrate=0.010, error=5.601

>epoch=98, lrate=0.010, error=5.601

>epoch=99, lrate=0.010, error=5.601

predict sepal length given petal length and petal width

epoch=0, lrate=0.010, error=11.334

>epoch=1, lrate=0.010, error=11.334

>epoch=2, lrate=0.010, error=11.334

>epoch=3, lrate=0.010, error=11.334

>epoch=4, lrate=0.010, error=11.334

>epoch=5, lrate=0.010, error=11.334

>epoch=6, lrate=0.010, error=11.334

>epoch=7, lrate=0.010, error=11.334

>epoch=8, lrate=0.010, error=11.334

>epoch=9, lrate=0.010, error=11.334

>epoch=10, lrate=0.010, error=11.334

>epoch=11, lrate=0.010, error=11.334

>epoch=12, lrate=0.010, error=11.334

>epoch=13, lrate=0.010, error=11.334

>epoch=14, lrate=0.010, error=11.334

>epoch=15, lrate=0.010, error=11.334

>epoch=16, lrate=0.010, error=11.334

>epoch=17, lrate=0.010, error=11.334

>epoch=18, lrate=0.010, error=11.334

>epoch=19, lrate=0.010, error=11.334

>epoch=20, lrate=0.010, error=11.334

>epoch=21, lrate=0.010, error=11.334

>epoch=22, lrate=0.010, error=11.334

>epoch=23, lrate=0.010, error=11.334

>epoch=24, lrate=0.010, error=11.334

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>epoch=30, lrate=0.010, error=11.334

>epoch=31, lrate=0.010, error=11.334

>epoch=32, lrate=0.010, error=11.334

>epoch=33, lrate=0.010, error=11.334

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>epoch=38, lrate=0.010, error=11.334

>epoch=39, lrate=0.010, error=11.334

>epoch=40, lrate=0.010, error=11.334

>epoch=41, lrate=0.010, error=11.334

>epoch=42, lrate=0.010, error=11.334

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>epoch=45, lrate=0.010, error=11.334

>epoch=46, lrate=0.010, error=11.334

>epoch=47, lrate=0.010, error=11.334

>epoch=48, lrate=0.010, error=11.334

>epoch=49, lrate=0.010, error=11.334

>epoch=50, lrate=0.010, error=11.334

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>epoch=58, lrate=0.010, error=11.334

>epoch=59, lrate=0.010, error=11.334

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>epoch=61, lrate=0.010, error=11.334

>epoch=62, lrate=0.010, error=11.334

>epoch=63, lrate=0.010, error=11.334

>epoch=64, lrate=0.010, error=11.334

>epoch=65, lrate=0.010, error=11.334

>epoch=66, lrate=0.010, error=11.334

>epoch=67, lrate=0.010, error=11.334

>epoch=68, lrate=0.010, error=11.334

>epoch=69, lrate=0.010, error=11.334

>epoch=70, lrate=0.010, error=11.334

>epoch=71, lrate=0.010, error=11.334

>epoch=72, lrate=0.010, error=11.334

>epoch=73, lrate=0.010, error=11.334

>epoch=74, lrate=0.010, error=11.334

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>epoch=76, lrate=0.010, error=11.334

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>epoch=78, lrate=0.010, error=11.334

>epoch=79, lrate=0.010, error=11.334

>epoch=80, lrate=0.010, error=11.334

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>epoch=82, lrate=0.010, error=11.334

>epoch=83, lrate=0.010, error=11.334

>epoch=84, lrate=0.010, error=11.334

>epoch=85, lrate=0.010, error=11.334

>epoch=86, lrate=0.010, error=11.334

>epoch=87, lrate=0.010, error=11.334

>epoch=88, lrate=0.010, error=11.334

>epoch=89, lrate=0.010, error=11.334

>epoch=90, lrate=0.010, error=11.334

>epoch=91, lrate=0.010, error=11.334

>epoch=92, lrate=0.010, error=11.334

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>epoch=94, lrate=0.010, error=11.334

>epoch=95, lrate=0.010, error=11.334

>epoch=96, lrate=0.010, error=11.334

>epoch=97, lrate=0.010, error=11.334

>epoch=98, lrate=0.010, error=11.334

>epoch=99, lrate=0.010, error=11.334

predict sepal width given petal length and petal width

epoch=0, lrate=0.010, error=19.068

>epoch=1, lrate=0.010, error=19.068

>epoch=2, lrate=0.010, error=19.068

>epoch=3, lrate=0.010, error=19.068

>epoch=4, lrate=0.010, error=19.068

>epoch=5, lrate=0.010, error=19.068

>epoch=6, lrate=0.010, error=19.068

>epoch=7, lrate=0.010, error=19.068

>epoch=8, lrate=0.010, error=19.068

>epoch=9, lrate=0.010, error=19.068

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>epoch=11, lrate=0.010, error=19.068

>epoch=12, lrate=0.010, error=19.068

>epoch=13, lrate=0.010, error=19.068

>epoch=14, lrate=0.010, error=19.068

>epoch=15, lrate=0.010, error=19.068

>epoch=16, lrate=0.010, error=19.068

>epoch=17, lrate=0.010, error=19.068

>epoch=18, lrate=0.010, error=19.068

>epoch=19, lrate=0.010, error=19.068

>epoch=20, lrate=0.010, error=19.068

>epoch=21, lrate=0.010, error=19.068

>epoch=22, lrate=0.010, error=19.068

>epoch=23, lrate=0.010, error=19.068

>epoch=24, lrate=0.010, error=19.068

>epoch=25, lrate=0.010, error=19.068

>epoch=26, lrate=0.010, error=19.068

>epoch=27, lrate=0.010, error=19.068

>epoch=28, lrate=0.010, error=19.068

>epoch=29, lrate=0.010, error=19.068

>epoch=30, lrate=0.010, error=19.068

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>epoch=50, lrate=0.010, error=19.068

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>epoch=56, lrate=0.010, error=19.068

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>epoch=82, lrate=0.010, error=19.068

>epoch=83, lrate=0.010, error=19.068

>epoch=84, lrate=0.010, error=19.068

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>epoch=88, lrate=0.010, error=19.068

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>epoch=99, lrate=0.010, error=19.068