Basic maths linear algebra

Vector, matrix, calculus

Then

Line equations

ML terms

Underfitting, overfitting, bias ,variance , bias variance

Parametric LR,NB, non parametric models knn,dt

Tain test data

EDA-Info,shape Handling Missing Values Handling Outliers Handling Skewness Data Encoding Feature Scaling -Normalization and Standardization Feature Engineering Assignment

LR Assumptions

Linear Regression

Linear Regression Linear Regression with OLS Linear Regression with SGD Assumptions Evaluating Model Parameters Polynomial Regression Measuring Performance metrics-Lost and Cost Function (MAE,MSE,RMSE,R2 Score) L1 and L2 Regularization Cross Validation

<https://jovian.ai/mustafaazzurr/linear-regression-from-scratch> not necesssary

Datasets: <https://www.kaggle.com/code/gadigevishalsai/car-sales-price-prediction-eda-regression>

<https://medium.com/@devsachin0879/detailed-exploratory-data-analysis-eda-on-used-cars-data-1bacac746ff4>

<https://www.kaggle.com/code/mruanova/heart-disease-prediction-random-forest-classifier>

<https://www.kaggle.com/code/yasserh/insurance-claim-prediction-top-ml-models>

<https://www.diva-portal.org/smash/get/diva2:1674070/FULLTEXT01.pdf>

<https://medium.com/@aopiyo28/unsupervised-learning-customer-segmentation-5cb5b412d3f4>

<https://github.com/AlbertOpiyo/customer-segmentation/blob/main/Unsupervised%20learning-%20customer%20segmentation.ipynb>

<https://www.kaggle.com/code/emineyetm/customer-segmentation-with-unsupervised-learning>

<https://www.kaggle.com/code/vipulgohel/capstone-project-credit-card-fraud-detection>

<https://cocalc.com/github/ashwinc97/credit-card/blob/main/Credit%20Card%20Fraud%20Detection%20Capstone%20Project%20(DA).ipynb>

<https://github.com/ashwinc97/credit-card/blob/main/Credit%20Card%20Fraud%20Detection%20Capstone%20Project%20(DA).ipynb>

<https://www.w3resource.com/python-exercises/pandas/groupby/index.php#google_vignette>