January 19, 2023

DSML: CC Fundamentals.

Flature Engineering - 2.

Kecap:

- (a) Hypothesis testing K, p-value, Null, Alternate.

 (b) Z-test ? leanger, 2 sample, independent, paired,

 (c) t-test J left-tailed, right-tailed, 2-tailed.
- (d) R-Stat
- (2) ANOVA
- (f) Kenekkal
- (g) Pearsonr (h) χ^2 test

Class begins @9:05p.m.



Recap: Data Analysis and Feature Engineering. Solutions to Prediction problems. I Human driven: Statistics + Intuition. > 2] Machine driven: Optimization & Geometry. 3] Hybrid: Statistics + Optimization.

Loan data.

Rey Observations:

1 Missing Lata.

a Income vs.

3 Total income vs. doan Status.

herrore learnt

() Enploratory data
analysis.

Test relevance of features.

Creation of new feature.

(b) Feature transformation.

Lodey:

- (a) Missing data.
- (b) Feature lengineering: beating use ful features.

(c) bincoding contegorical variables.

K-nearest neighbour imputu.

Prediction problem. Data

Peudiction.

Habel rember. Aog (Lat) (Human. <u>→</u> [0.1 0.8 0.1]

P[Loan_Status = Y' | Propurty Area = "Wrban"]