Agenda:

→ FE-6

- 6 D A - 1

→ Data: house prices ff(1 to 5) : diabetes dataset (ff-6)

Imbalanud Data ?

-> classification prob, one class has more sample than other.

company -

confr bregistion

M: Majort

Sorny

biased

Male - MI - Male

- Solution: resampling

1000 people - 90 - MC

90 1 910 J. non-(

Techniques to handle Imbalance: - Random Under-Sample (RUS) -> kandom Over-sample (ROS) - smote (synthetic Minority Oversampling Technique) → ADASYN (Adaptive Synthic Sampling) -> & US Male: 100 Female: 30 - Reduce Majorily Mais by randomly remoning sample. Majority - Male - 30 Dataset - Disadvantage - we are throwing weful data. → R OS -> Duplicate samples from minority class. Male: 100 Female: 30 - ROS - Female: 30 + [70] by duplication

→ can coole overtitting

- SMOTE

(3)

Better than ROS

MYC ADA -

- help goment data of under represented cartegories

Dataset - set of analysis - gattern/vela hons hip

data - into - how many colons are nomerical?

read
about
colonns

(ategorical - count plot - fix dada imbalanced?

→ Analyris → visualization

Statistical method

Data - EDA - Feature - Engineering - ML - Deployment

Summarize and visualize what the data looks like

- Central tendency (mean, median, mode)
- Variability (variance, std, IQR)
- Correlation & Associations
- Frequency counts. histogram, boxplot, plots...
- handling missing values, outliers

ASK: What is happening in the dataset?

Make inferences or generalizations about the population from the sample

- Hypothesis Test
- Confidence interval
- Effect size
- Regression based inference

ASK: Can we claim this effect exist in the larger population or is it just by chance?

NLP - language nltk - nlp task - trench corpus - collection of text/data stop words: 9, an, the, she, it on, at (common words which doesn't add any significant meaning) sequence of n words that appear together in a text: n=1, Unigram: movie, good, bad, monal, Hello great movie, not good, Hello Alak n=2, Bigrom: n=3, Triguem: waste of time, best movie ever not youd unigrem - nort, Good not good Bigrom: L -18 not good direction Indraw !