Figure 1

A Features → Samples ↓ X_{RAW} — String, Integer, Float, ... — ⚙ Typing

B Features → Samples ↓ X_{RAW} — Categoric 1, Categoric 2, Numeric 1, ... — ⚙ one-hot encoding

C Features → Samples ↓ $X_{categoric}$, $X_{numeric}$, $X_{combinations}$

Xi ... Xj | Xci ... Xcj

Xi	..	Xj
1	..	1
0	..	0
1	..	0
1	..	0
1	..	1
..	..	..

$$X_c = \prod_{k=1..n}^{\binom{n}{k}} (X^i, .., X^j), where$$

$$\sum X_c \geq y^{min}$$

$$\binom{n}{k} = \frac{n!}{k!(n-k)!}$$

X_c: 1, 0, 0, 0, 1, 1, ..

D

$X_{categoric}$

Xi	...	Xj
1	..	1
0	..	0
1	..	0
1	..	0
1	..	1
..	..	..

$P_c(i,j)$

$X_{combinations}$

Xci	...	Xcj
1	..	1
0	..	0
1	..	0
1	..	0
1	..	1
..	..	..

$P_n(i, \sim i)$

$X_{numeric}$

Xni	...	Xnj
5.1	..	1.4
6.3	..	0.7
2.0	..	4.3
1.9	..	2.2
4.8	..	5.3
..	..	..

$$P_c(i,j) = F(X \geq x|M,K,n) = 1 - \sum_0^{x-1} \frac{\binom{K}{x}\binom{N-K}{n-x}}{\binom{N}{n}}$$

$$P_n(i,j) = Wilcoxon\ Ranksum(Xni, Xi, \sim Xi)$$

E

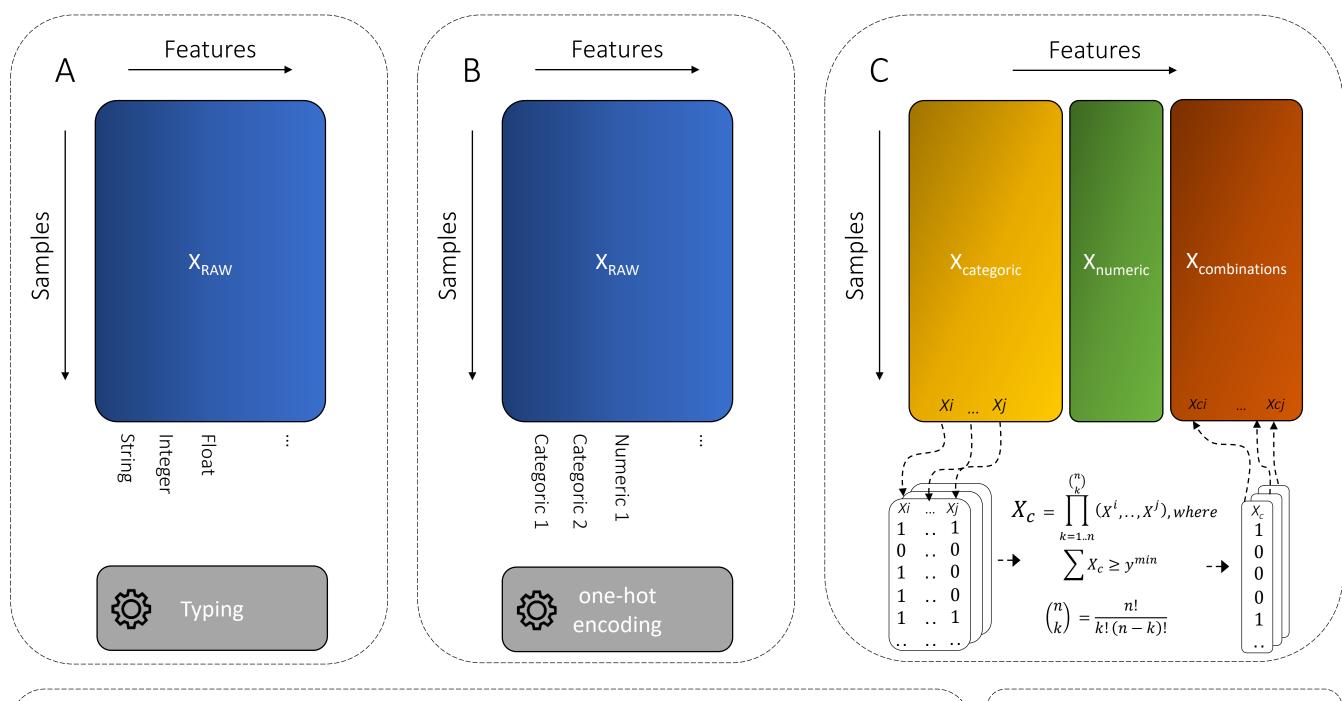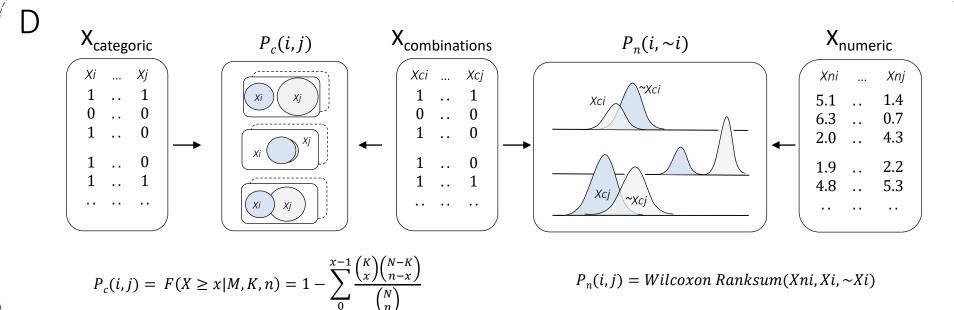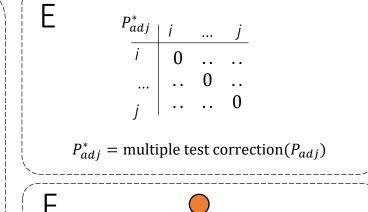| P_{adj}^*	i	...	j
i	0	..	..
...	..	0	..
j	..	..	0

$$P_{adj}^* = multiple\ test\ correction(P_{adj})$$

F

$$Edgeweight = -log10(P_{adj}^* \leq alpha)$$