Assignment 7 Predictions

Nicholas Jacob

2024-10-29

Table 2: Descriptive Summary of Categorical Variables

variable	n	missing	missing_pct	unique	unique_pct	freqRatio	1st mode	first_mode_freq	2nd mode	second_mode_freq
race	57855	1313	2.27	6	0.01	4.07	Caucasian	43515	AfricanAmerican	10694
gender	57855	5	0.01	4	0.01	1.16	Female	31029	Male	26820
age	57855	1	0.00	11	0.02	1.15	[70-80)	14694	[60-70)	12796
payer_code	57855	21515	37.19	4	0.01	1.33	medicare	18985	insurance	14302
medical_specialty	57855	27810	48.07	70	0.12	1.89	InternalMedicine	8460	Emergency/Trauma	4468
diagnosis	57855	11	0.02	668	1.15	1.03	428	3859	414	3746
max_glu_serum	57855	0	0.00	4	0.01	35.40	None	54736	Norm	1546
A1Cresult	57855	0	0.00	4	0.01	10.23	None	48099	>8	4701
metformin	57855	0	0.00	4	0.01	4.43	No	46445	Steady	10478
repaglinide	57855	0	0.00	4	0.01	71.20	No	56962	Steady	800
nateglinide	57855	0	0.00	4	0.01	143.58	No	57432	Steady	400
chlorpropamide	57855	0	0.00	3	0.01	1700.53	No	57818	Steady	34
glimepiride	57855	0	0.00	4	0.01	19.93	No	54814	Steady	2750
acetohexamide	57855	0	0.00	2	0.00	57854.00	No	57854	Steady	1
glipizide	57855	0	0.00	4	0.01	7.64	No	50469	Steady	6610
glyburide	57855	0	0.00	4	0.01	10.28	No	52063	Steady	5066
tolbutamide	57855	0	0.00	2	0.00	3856.00	No	57840	Steady	15
pioglitazone	57855	0	0.00	4	0.01	13.01	No	53531	Steady	4114
rosiglitazone	57855	0	0.00	4	0.01	15.34	No	54166	Steady	3530
acarbose	57855	0	0.00	4	0.01	362.81	No	57687	Steady	159
miglitol	57855	0	0.00	4	0.01	3213.00	No	57834	Steady	18
troglitazone	57855	0	0.00	2	0.00	28926.50	No	57853	Steady	2
tolazamide	57855	0	0.00	2	0.00	3044.00	No	57836	Steady	19
examide	57855	0	0.00	1	0.00	NA	No	57855	NA	NA
citoglipton	57855	0	0.00	1	0.00	NA	No	57855	NA	NA
insulin	57855	0	0.00	4	0.01	1.47	No	26287	Steady	17871
glyburide.metformin	57855	0	0.00	4	0.01	137.73	No	57432	Steady	417
glipizide.metformin	57855	0	0.00	2	0.00	8264.00	No	57848	Steady	7
glimepiride.pioglitazone	57855	0	0.00	1	0.00	NA	No	57855	NA	NA
metformin.rosiglitazone	57855	0	0.00	2	0.00	28926.50	No	57853	Steady	2
metformin.pioglitazone	57855	0	0.00	2	0.00	57854.00	No	57854	Steady	1
diabetesMed	57855	0	0.00	2	0.00	3.49	Yes	44970	No	12885

Table 1: Descriptive Summary of Numeric Variables

variable	n	missing	missing_pct	unique	unique_pct	mean	min	Q1	median	Q3	max	sd
patientID	57855	0	0.00	57855	100.00	4.9e+04	1001	25106.5	49212	73317	97421	2.8e+04
admission_type	57855	0	0.00	8	0.01	2.0e+00	1	1.0	1	3	8	1.5e+00
discharge_disposition	57855	0	0.00	22	0.04	3.0e+00	1	1.0	1	3	28	4.5e+00
admission_source	57855	0	0.00	17	0.03	5.8e+00	1	1.0	7	7	25	4.1e+00
time_in_hospital	57855	4	0.01	15	0.03	4.4e+00	1	2.0	4	6	14	3.0e+00
indicator_level	57855	6	0.01	9975	17.24	5.0e+01	-869	24.8	50	75	999	3.0e+01
indicator_2_level	57855	28809	49.80	7432	12.85	2.5e+01	-682	6.9	19	38	99	2.2e+01
num_lab_procedures	57855	1	0.00	115	0.20	4.3e+01	1	31.0	44	57	132	2.0e+01
num_procedures	57855	0	0.00	7	0.01	1.3e+00	0	0.0	1	2	6	1.7e+00
num_medications	57855	0	0.00	74	0.13	1.6e+01	1	10.0	15	20	81	8.1e+00
number_outpatient	57855	0	0.00	37	0.06	3.9e-01	0	0.0	0	0	42	1.3e+00
number_emergency	57855	0	0.00	30	0.05	2.1e-01	0	0.0	0	0	64	9.6e-01
number_inpatient	57855	0	0.00	19	0.03	6.3e-01	0	0.0	0	1	19	1.2e+00
number_diagnoses	57855	0	0.00	16	0.03	7.4e+00	1	6.0	8	9	16	1.9e+00
readmitted	57855	0	0.00	2	0.00	4.7e-01	0	0.0	0	1	1	5.0e-01