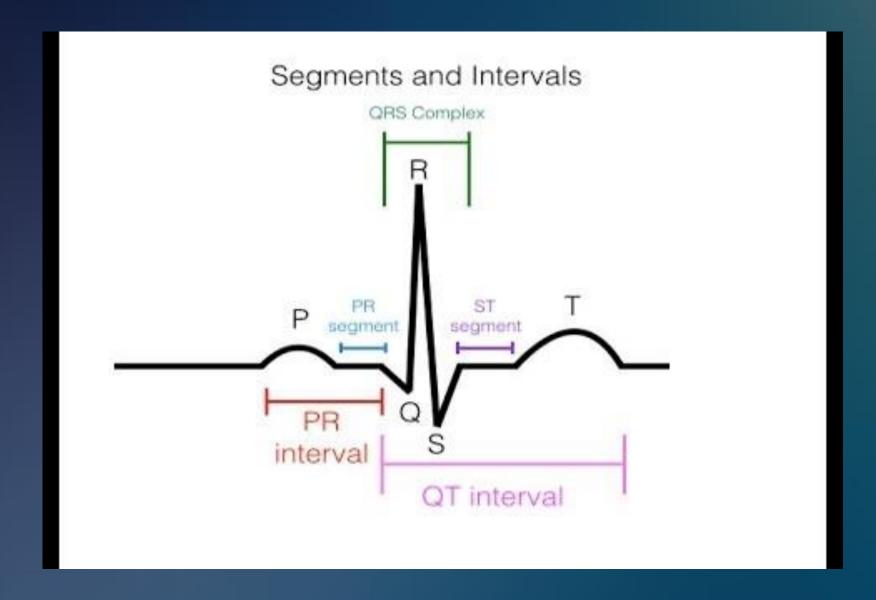
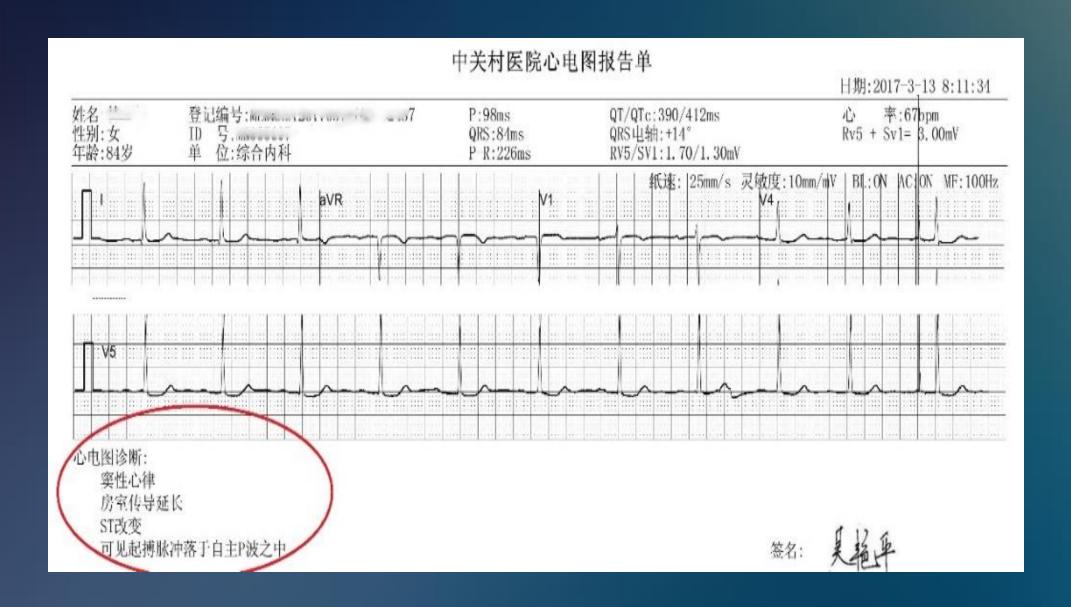


Research about ECG dataset

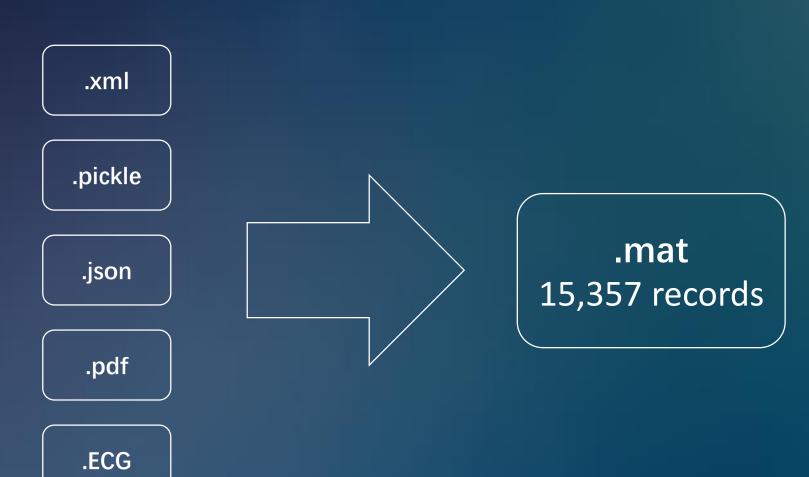
Chuankai_Luo



Brief introduce about ecg data



China ECG Al Contest (CEAC) 2019



Question 1 label distribution in this dataset

Question 2 Correlation between various diseases and gender and age

Question 3 Correlation between various diseases and diseases

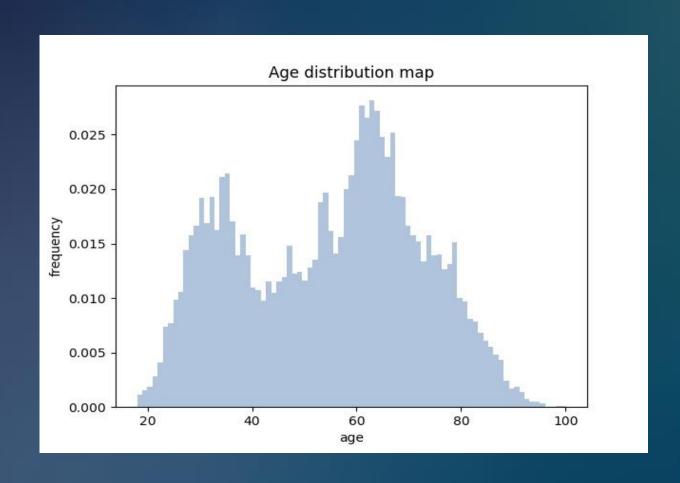


Question 1 label distribution in this dataset

Full name	abbreviation	Amount		
Normal	Normal	9788		
Early repolarization graphic change	ERGC	584		
Indoor differential conduction	IDC	90		
T wave change	TWC	5676		
FirstdegreeA-Vblock	I-AVB	805		
Atrial fibrillation	AFI	772		
Premature atrial contraction	PAC	769		
Complete right bundle branch block	CRBBB	963		
Ventricular premature beat	VPB	844		
Left anterior branch block	LAFB	343		
Atrial flutter	AFL	163		
Incomplete right bundle branch block	IRBBB	639		

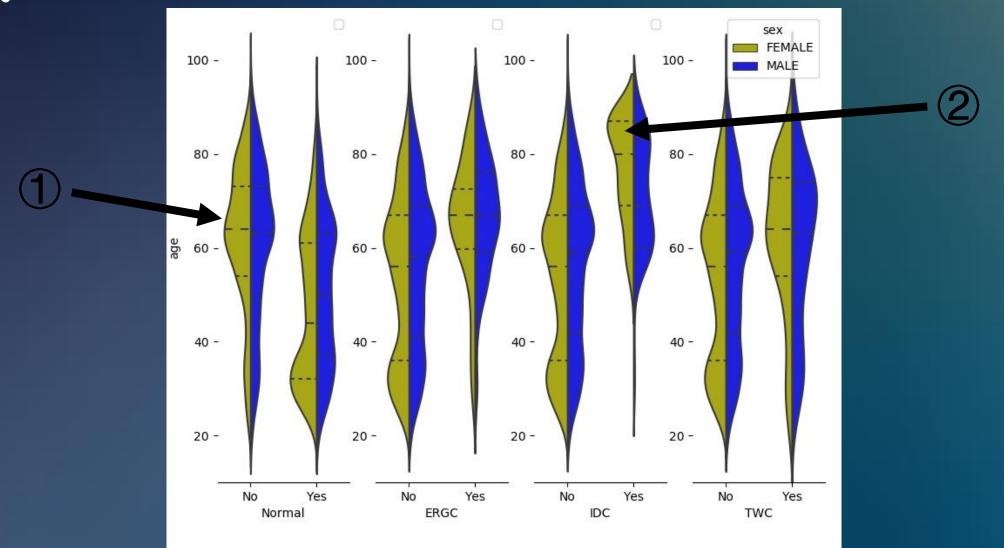


Question 1 label distribution in this dataset



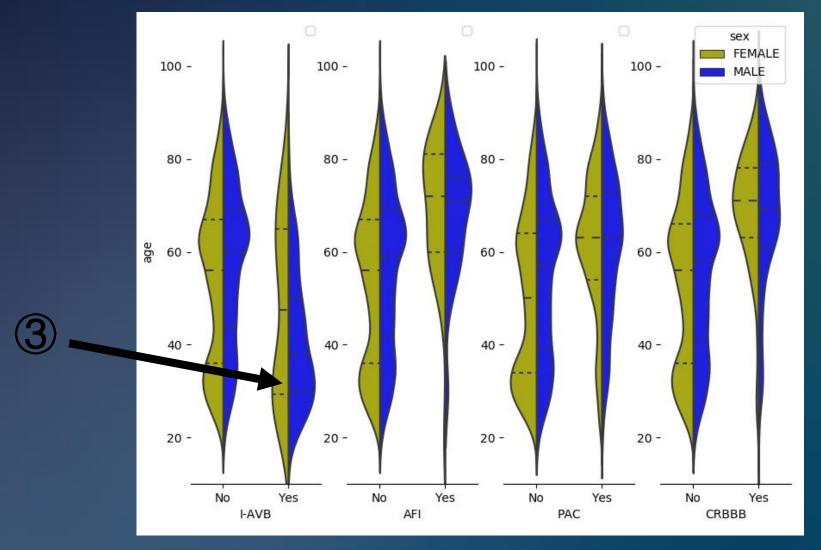


Question 2 Correlation between various diseases and gender and age



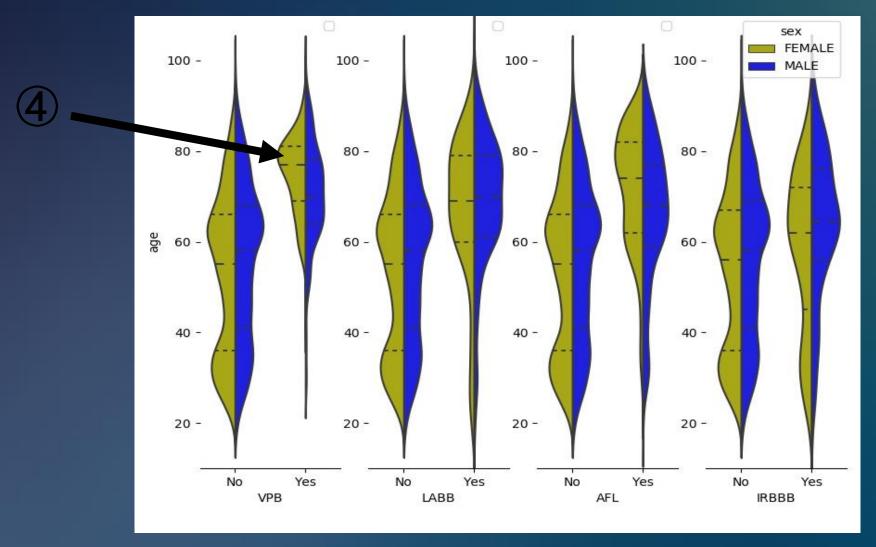


Question 2 Correlation between various diseases and gender and age





Question 2 Correlation between various diseases and gender and age





Question 3 Correlation between various diseases and diseases

	age	Normal	ERGC	IDC	TWC	I-AVB	AFI	PAC	CRBBB	VPB	LABB	AFL	IRBBB
age	1	-0.3671	0. 08809	0. 09346	0. 06186	-0. 12884	0. 05298	0. 23097	0. 15809	0. 20367	0. 15112	0. 16878	0. 07699
Norma1	-0.3671	1	-0. 13357	-0.09165	-0. 18374	-0. 1754	-0.06798	-0.63919	-0.20714	-0. 20267	-0. 20226	-0. 22751	-0. 21231
ERGC	0. 08809	-0.13357	1	0.00918	0. 02586	-0.02342	0.01394	-0.02357	0.02724	0.00894	-0.00095	0. 10824	0.0004
IDC	0.09346	-0.09165	0.00918	1	0.0148	-0.01607	0.01039	0.03932	-0.01898	-0.01857	-0.01853	0.03374	-0.01392
TWC	0.06186	-0. 18374	0.02586	0.0148	1	-0.02884	0.00451	-0.04074	0.00249	0.04401	-0.00164	-0.04179	0.00205
I-AVB	-0.12884	-0.1754	-0.02342	-0.01607	-0.02884	1	-0.01192	-0.10744	-0.00608	-0.03245	-0.02619	-0.03989	-0.02836
AFI	0. 05298	-0.06798	0.01394	0.01039	0.00451	-0.01192	1	-0.00183	-0.01408	0.16082	0.11064	-0.00499	-0.01071
PAC	0. 23097	-0.63919	-0.02357	0.03932	-0.04074	-0.10744	-0.00183	1	-0.02463	0.06023	-0.03883	-0.05532	-0.04088
CRBBB	0. 15809	-0. 20714	0.02724	-0.01898	0.00249	-0.00608	-0.01408	-0.02463	1	-0.04197	-0.00613	0.02307	0.00796
VPB	0. 20367	-0. 20267	0.00894	-0.01857	0.04401	-0.03245	0.16082	0.06023	-0.04197	1	-0.04098	0.03522	0.00092
LABB	0. 15112	-0. 20226	-0.00095	-0.01853	-0.00164	-0.02619	0.11064	-0.03883	-0.00613	-0.04098	1	0.0233	-0.00409
AFL	0. 16878	-0. 22751	0.10824	0.03374	-0.04179	-0.03989	-0.00499	-0.05532	0.02307	0.03522	0.0233	1	-0.01457
IRBBB	0.07699	-0.21231	0.0004	-0.01392	0.00205	-0.02836	-0.01071	-0.04088	0.00796	0.00092	-0.00409	-0.01457	1

Spearman Correlation Coefficient



Question 3 Correlation between various diseases and diseases

