

Sd11

data												
	age	sex	creatinine_phosphokinase	diabetes	ejection_fraction	high_blood_pressure	platelets	serum_creatinine	serum_sodium	sex	smoking	time
0	75.8	1	182	0	20		1	2.500000	130	1	0	4
1	55.8	1	701	0	24		0	2.020000	131	1	0	6
2	55.8	1	186	0	20		0	1.920000	130	1	1	1
3	53.8	1	101	0	20		0	2.000000	130	1	0	1
4	55.8	1	190	1	20		0	3.700000	121	1	0	1
...												
294	62.8	0	81	1	38		1	1.600000	140	1	1	200
295	55.8	0	100	0	38		0	2.700000	131	1	0	201
296	40.8	0	200	1	60		0	2.400000	130	0	0	200
297	40.8	0	140	0	30		0	1.000000	140	1	1	200
298	54.8	1	100	0	40		0	1.600000	130	1	1	200

298 rows x 13 columns

```
# Cumulative proportion of variance (from PC1 to PC6)
np.cumsum(pca_out.explained_variance_ratio_)

array([0.13858049, 0.27017178, 0.37585032, 0.46804517, 0.55466877,
       0.63707509, 0.71060026, 0.78112090, 0.84475713, 0.90370110])
```

	PC1	PC2	PC3	PC4	PC5
variable					
age	0.049101	0.490932	-0.102100	0.052074	0.197514
sex	-0.278183	0.320468	-0.195436	-0.414443	-0.209750
creatinine_phosphokinase	-0.162765	-0.230922	0.083685	0.481709	0.510700
diabetes	-0.204207	-0.151573	0.305240	0.151300	-0.260351
ejection_fraction	-0.261312	-0.046662	-0.443315	-0.027672	0.354845
high_blood_pressure	-0.190258	0.205189	-0.225776	0.413401	-0.512492
platelets	-0.172213	-0.157015	-0.121557	0.623681	-0.270750
serum_creatinine	0.037199	0.403603	0.205003	0.047074	0.402013
serum_sodium	-0.093520	-0.240871	-0.025528	-0.013290	0.102030
sex	0.622375	0.033969	-0.002657	-0.050026	-0.115336
smoking	0.063519	0.008662	0.276002	0.077003	0.300667
time	-0.001302	-0.510582	0.041592	-0.353603	0.066537

Se determina cuales son los factores de riesgo asociado mortalidad en los paciente de falla cardiaca donde existe 13 variables .

Se toman 5 variables donde evidencia varianza acumulada de del 55%

Se elimina la variable dependiente de con variable de estudio( muerte por evento)

## Diapositiva 1

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**Sdl1**

Salas de Informática; 4/06/2022

