Table 1: The selected 165 features' names of heart sound.

Table 1: The selected 165 features' names of heart sound.										
Feature Name	Shap value	weight	gain	cover	total_gain	total_cover				
udspecRasta_lengthL1norm_sma_de_stddevRisingSlope numeric	0.1749088	4	59.07317352	1330	236.2926941	5320				
fcc_sma[5]_peakMeanRel numeric	0.066608705	2	33.78628922	908	67.57257843	1816				
fcc_sma[4]_percentile99.0 numeric cm_fftMag_spectralSkewness_sma_meanFallingSlope numeric	0.027021766 0.01917158	1 1	9.735995293 5.615310669	1330 1330	9.735995293 5.615310669	1330 1330				
cm_fftMag_spectralSlope_sma_risetime numeric	0.016092975	1	3.445723057	1330	3.445723057	1330				
udSpec_Rfilt_sma_de[22]_quartile3 numeric	0.015471268	2	6.0129776	374	12.0259552	748				
cm_fftMag_spectralFlux_sma_de_quartile2 numeric	0.014841603	1	6.25514555	747	6.25514555	747				
udspec_lengthL1norm_sma_de_lpc0 numeric	0.014638417	1	13.98928738	328	13.98928738	328				
udSpec_Rfilt_sma[11]_risetime numeric	0.014299023	3	1.715965867	611	5.14789772	1833				
udSpec_Rfilt_sma_de[23]_quartile3 numeric fcc_sma[4]_iqr1-3 numeric	0.014214776 0.013853458	1 2	9.673725128 7.019974709	679 430	9.673725128 14.03994942	679 860				
oicingFinalUnclipped_sma_flatness numeric	0.013533436	1	8.57629776	498	8.57629776	498				
udSpec_Rfilt_sma[0]_quartile2 numeric	0.013094406	1	2.308807135	1330	2.308807135	1330				
oicingFinalUnclipped_sma_lpc0 numeric	0.01280389	1	7.025602341	596	7.025602341	596				
cm_fftMag_spectralHarmonicity_sma_percentile1.0 numeric	0.012099205	1	11.92963409	258	11.92963409	258				
cm_fftMag_spectralCentroid_sma_skewness numeric	0.011240978	2	0.81099081	942	1.621981621	1884				
fcc_sma[3]_peakMeanAbs numeric udSpec_Rfilt_sma_de[13]_stddevRisingSlope numeric	0.011181817 0.010769798	1 1	14.97934723 1.756378412	$\frac{451}{1330}$	14.97934723 1.756378412	451 1330				
fcc_sma[3]_iqr2-3 numeric	0.010016562	1	5.267727852	738	5.267727852	738				
cm_fftMag_spectralSkewness_sma_de_lpgain numeric	0.009126852	1	1.210110903	1330	1.210110903	1330				
picingFinalUnclipped_sma_lpgain numeric	0.007829903	1	2.564095974	611	2.564095974	611				
udSpec_Rfilt_sma_de[2]_risetime numeric	0.007798587	1	1.246006727	1330	1.246006727	1330				
cm_RMSenergy_sma_peakRangeAbs numeric	0.007496908	1	7.285607815	734	7.285607815	734				
cm_fftMag_spectralCentroid_sma_minRangeRel numeric	0.007475868	1	0.660296619	1330	0.660296619	1330				
cm_fftMag_spectralVariance_sma_flatness numeric fcc_sma[3]_amean numeric	0.007420569 0.006865831	1 1	2.622623205 3.782421112	775 393	2.622623205 3.782421112	775 393				
udSpec_Rfilt_sma[2]_linregerrQ numeric	0.006835031	1	0.912325859	1326	0.912325859	1326				
cm_RMSenergy_sma_flatness numeric	0.006573637	1	6.422821045	749	6.422821045	749				
udSpec_Rfilt_sma[5]_quartile3 numeric	0.006294543	1	0.478050798	1321	0.478050798	1321				
udSpec_Rfilt_sma[5]_iqr1-2 numeric	0.005954946	1	1.598445177	1111	1.598445177	1111				
fcc_sma[12]_iqr2-3 numeric	0.005753407	1	6.725850105	583	6.725850105	583				
fcc_sma[13]_lpgain numeric	0.005692956 0.005576141	1	0.502746999	1298	0.502746999	1298				
cm_fftMag_fband250-650_sma_de_peakDistStddev numeric udSpec_Rfilt_sma_de[24]_quartile2 numeric	0.005576141	$\frac{1}{2}$	0.389642864 1.020026922	1330 1330	0.389642864 2.040053844	1330 2660				
udSpec_Rfilt_sma[6]_quartile3 numeric	0.005313308	1	5.443786621	434	5.443786621	434				
udspecRasta_lengthL1norm_sma_de_iqr1-2 numeric	0.005278943	1	1.099442482	1018	1.099442482	1018				
cc_sma[5]_lpgain numeric	0.005124319	1	1.139160156	424	1.139160156	424				
dSpec_Rfilt_sma_de[13]_meanRisingSlope numeric	0.005056385	1	0.394382507	1280	0.394382507	1280				
cc_sma_de[3]_kurtosis numeric	0.004974036	1	2.690096855	819	2.690096855	819				
cc_sma_de[2]_percentile1.0 numeric	0.00495234	1	0.621264398	790	0.621264398	790				
cm_fftMag_fband250-650_sma_linregc1 numeric cc_sma_de[2]_skewness numeric	0.004844865 0.004828318	1 1	0.281745851 0.945549786	1312 770	0.281745851 0.945549786	1312 770				
idspec_lengthL1norm_sma_meanSegLen numeric	0.004828318	1	1.342338324	979	1.342338324	979				
udSpec_Rfilt_sma[6]_meanSegLen numeric	0.004744658	1	0.997637093	1169	0.997637093	1169				
udSpec_Rfilt_sma[0]_risetime numeric	0.004732204	1	3.225561857	74	3.225561857	74				
fcc_sma[2]_maxSegLen numeric	0.004728207	1	0.519239247	1327	0.519239247	1327				
udSpec_Rfilt_sma_de[14]_stddevRisingSlope numeric	0.00470226	1	1.475333691	391	1.475333691	391				
fcc_sma_de[2]_quartile2 numeric	0.004379132	1	1.170669794	1303	1.170669794	1303				
cc_sma_de[11]_peakDistStddev numeric cc_sma_de[9]_peakDistStddev numeric	0.004351366 0.004338105	1 1	0.770152211 0.388319731	1330 1325	0.770152211 0.388319731	1330 1325				
cm_fftMag_spectralVariance_sma_linregc2 numeric	0.004334103	1	2.174813986	879	2.174813986	879				
cc_sma[1]_quartile1 numeric	0.004088204	2	2.74508667	351.5	5.49017334	703				
udSpec_Rfilt_sma[6]_iqr2-3 numeric	0.004022839	1	1.191879869	1294	1.191879869	1294				
cm_fftMag_psySharpness_sma_minRangeRel numeric	0.003896863	1	0.401606768	1062	0.401606768	1062				
udspecRasta_lengthL1norm_sma_meanSegLen numeric	0.003853667	1	0.445445478	1295	0.445445478	1295				
udSpec_Rfilt_sma_de[3]_leftctime numeric	0.003800792	$\frac{1}{2}$	2.882632017	592	2.882632017	592				
fcc_sma[10]_peakRangeRel numeric fcc_sma_de[5]_lpc1 numeric	0.003772016 0.003659269	1	1.125457048 2.361129761	1041.5 923	2.250914097 2.361129761	2083 923				
cm_fftMag_spectralSkewness_sma_lpc0 numeric	0.003499466	1	3.718276978	523	3.718276978	523				
idSpec_Rfilt_sma_de[12]_stddevFallingSlope numeric	0.003484988	1	1.881630421	407	1.881630421	407				
cc_sma[2]_upleveltime50 numeric	0.003321341	1	0.834810019	983	0.834810019	983				
m_fftMag_spectralSlope_sma_de_quartile3 numeric	0.003269716	1	2.736748695	569	2.736748695	569				
cc_sma_de[4]_pctlrange0-1 numeric	0.003264664	1	1.344154358	555	1.344154358	555				
idSpec_Rfilt_sma[10]_meanSegLen numeric	0.003213854	1	0.999613822	$1074 \\ 127$	0.999613822	1074				
cm_fftMag_spectralSkewness_sma_de_flatness numeric cm_fftMag_spectralSkewness_sma_de_percentile99.0 numeric	0.003093224 0.00309266	1 1	3.515030384 1.360512137	950	3.515030384 1.360512137	127 950				
idSpec_Rfilt_sma[10]_lpc1 numeric	0.00309200	1	0.669033051	888	0.669033051	888				
cc_sma[7]_linregerrQ numeric	0.003059623	1	0.362798691	1302	0.362798691	1302				
cc_sma[13]_iqr2-3 numeric	0.00305221	1	2.921410799	89	2.921410799	89				
cc_sma_de[9]_quartile2 numeric	0.002958984	1	0.74704951	901	0.74704951	901				
cc_sma[8]_range numeric	0.002835295	1	0.767194033	1327	0.767194033	1327				
cc_sma_de[13]_risetime numeric m_fftMag_spectralSlope_sma_linregc1 numeric	0.002822805 0.002801212	1 1	1.911473036 1.542387009	60 347	1.911473036 1.542387009	60 347				
dSpec_Rfilt_sma[11]_segLenStddev numeric	0.002301212	1	0.933002472	385	0.933002472	385				
cc_sma_de[7]_pctlrange0-1 numeric	0.002739604	1	1.344755292	506	1.344755292	506				
dSpec_Rfilt_sma_de[6]_percentile1.0 numeric	0.002661523	1	1.024646759	1330	1.024646759	1330				
dSpec_Rfilt_sma[15]_peakRangeRel numeric	0.001648004	1	0.53542912	263	0.53542912	263				
cc_sma[2]_linregc1 numeric	0.001599217	1	0.394384265	600	0.394384265	600				
m_fftMag_psySharpness_sma_linregc1 numeric	0.001595959	1	0.334819168 1.373440266	1324	0.334819168	1324				
ndSpec_Rfilt_sma[7]_leftctime numeric cc_sma[3]_upleveltime90 numeric	0.001591305 0.001587785	1 1	2.038755417	44 760	1.373440266 2.038755417	44 760				
cc_sma[5]_rqmean numeric	0.001532889	2	0.726613462	1266.5	1.453226924	2533				
cc_sma[10]_skewness numeric	0.001477398	1	0.527558625	324	0.527558625	324				
cm_fftMag_spectralKurtosis_sma_de_flatness numeric	0.001469919	1	0.467760682	1241	0.467760682	1241				
idSpec_Rfilt_sma[25]_upleveltime50 numeric	0.001460258	1	0.302553505	1326	0.302553505	1326				
cc_sma_de[5]_lpc4 numeric	0.001403587	1	0.539424777	1291	0.539424777	1291				
	0.001380694	1	1.193989992	23	1.193989992	23				
udSpec_Rfilt_sma_de[10]_upleveltime90 numeric cm_fftMag_spectralRollOff75.0_sma_de_stddevFallingSlope numeric	0.001334538	1	0.547998667	798	0.547998667	798				

Feature Name oingFinalUnclipped_sma_range numeric		Table 1 (continued))				
udSpe_Rfilt_sma[6]_eptrange0_1 numeric 0.001314231 1 0.401833385 1185 0.401833385 1185 coinfffMag_fband250-660_sma_de_range numeric 0.01303879 1 0.4523746 50 0.6723746 50 disper_Rfilt_smale_fl_ple_sma_de_quartile3 numeric 0.001216713 1 0.0533000 50 0.70532000 50 cm_fffMag_fband1000-4000_sma_de_minPos numeric 0.00111533 1 0.48417581 522 0.48417581 522 cm_fffMag_fband1000-4000_sma_de_minPos numeric 0.00113838 1 0.13636314 33 1.136362314 33 1.136362314 33 1.136362314 33 1.136362314 33 1.136362314 33 1.136362314 33 1.136362314 33 1.136362314 33 1.136362314 33 1.136362314 33 1.136362314 33 1.136362314 33 1.136362314 33 1.1362626 32 0.1561425 532 0.1561425 532 0.1561425 532 0.1561425 532 0.15614452 532 0.15614415 0.1561				gain		total_gain	
cm_fftMag_fbandz50_660_sma_de_narale_numeric	oicingFinalUnclipped_sma_range numeric	0.00132699	1	1.335298538	31	1.335298538	31
olcingFinalUnclipped.sma.de.quartile3 numeric 0.00128073 1 0.825291157 49 0.825291157 49 udSpec.Rfilt.sma.[7].pcs numeric 0.001216733 1 0.807898402 100 0.807898402 100 c.m.ffMag.Apan41000-4000.ma.de.mainPos numeric 0.0011533 1 0.484175861 52 0.884175861 52 0.484175861 52 0.484175861 52 0.484175861 52 0.484175861 52 0.484175861 52 0.484175861 52 0.484175861 52 0.484175861 52 0.484175861 52 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 432 0.45243245	udSpec_Rfilt_sma[6]_pctlrange0-1 numeric	0.001314231	1	0.401833385	1185	0.401833385	1185
Magnes-Ritit-smal[17]-lpc3 numeric 0.001216713 1 0.705320001 55 0.705320001 55 0.705320001 55 0.705320001 55 0.705320001 55 0.50532001 50 0.5053	cm_fftMag_fband250-650_sma_de_range numeric	0.001303879	1	0.647293746	507	0.647293746	507
fec.smaf[6]-qregc1 numeric	oicingFinalUnclipped_sma_de_quartile3 numeric	0.001280073	1	0.825291157	49	0.825291157	49
cm.fffMag_chand1000-4000-sma.de_minPos numeric 0.00171463 1 0.484175861 522 0.484175861 522 0.484175861 522 0.484175861 522 0.484175861 522 0.484175861 523 0.136362314 33 udspec_Rfilt.sma.de[0]_Lpc4 numeric 0.001018488 1 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51261425 532 0.51276102 775 udspec_Length.linem.sma.de_Lengte.mage.neth.neth.mage.neth.mage.neth.neth.mage.neth.mage.neth.neth.mage.neth.neth.mage.neth.neth.mage.neth.neth.neth.mage.neth.neth.mage.neth.neth.mage.neth.neth.neth.mage.neth.neth.neth.neth.neth.mage.neth.neth.neth.neth.mage.neth.neth.neth.neth.neth.neth.neth.net	udSpec_Rfilt_sma[17]_lpc3 numeric	0.001216713	1	0.705320001	55	0.705320001	55
udSpec_RfitLssma.de[25]_ninSegLen numeric 0.001072463 1 1.136362314 33 1.136362314 33 udSpec_RfitLssma.de[22]_pleA numeric 0.001038986 1 1.1727602 775 1.1727602 775 udSpec_RfitLssma.de[22]_skewness numeric 0.000986083 1 0.63786608 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.421422035 44 0.421422035 44 0.421422035 44 0.421422035 44 0.421422035 44 0.421422035 44 0.421422035 44 0.421422035 44 0.421422035 44 0.421422035 44 0.421422035 44 0.421422035 44 0.421422035 42 0.21422122222222222222222222222222222222	fcc_sma[6]_qregc1 numeric	0.001205926	1	0.807898402	100	0.807898402	100
adSpec_Rfit_sama_de[o]_lpc4 numeric	cm_fftMag_fband1000-4000_sma_de_minPos numeric	0.00111533	1	0.484175861	522	0.484175861	522
cm.fffMag.spectral[Siope.sma.minFon numeric 0.001018498 1 1.17227602 775 1.17227602 775 udspec_Rfilt.sma.de[2]_skewness numeric 0.000965083 1 0.63786608 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.63786008 796 0.421422035 44 0.421422035 44 0.421422035 44 0.421422035 44 0.421422035 42 0.421422035 42 0.421422035 42 0.421422035 42 0.421422035 42 0.421422035 42 0.421422035 42 0.421422035 42 0.421422035 42 0.421422035 42 0.421422035 42 0.421422035 42 0.421422035 42 0.421422035 42 0.421422035 42 0.421422035 42 0.421422035 42 0.421422025 42 0.421422025 42 0.421422026 <	udSpec_Rfilt_sma_de[25]_minSegLen numeric	0.001072463	1	1.136362314	33	1.136362314	33
udSpec_Rfilt_sma_de_pcttranged-1 numeric	udSpec_Rfilt_sma_de[6]_lpc4 numeric	0.001038906	1	0.51261425	532	0.51261425	532
udspee_LengthLinorm.sima.de.pcttrange0-1 numeric 0.00096522 1 0.421422035 44 0.421422035 44 udspee_Lingtis.msa.dei]_quartile2 numeric 0.000913065 1 0.789074888 27 0.789074888 27 udspee_Lingtis.msa.dei]_quartile2 numeric 0.000913065 1 0.399933308 712 0.399933308 712 udspee_Lingtis.msa.dei_Quartile2 numeric 0.000889177 1 0.514449418 41 0.14449418 41 udspee_Lingtis.msa.dei_In_peakRangeRei numeric 0.00088933 1 0.508827614 34 0.509827613 34 0.509827613 34 0.509827613 34 0.509827613 34 0.509827613 34 0.509827613 34 0.509827613 34 0.509827613 34 0.509827613 34 0.509827613 34 0.509827613 34 0.50982761 33 0.28179769 1330 0.28179769 1330 0.281879769 1330 0.281879769 1330 0.281879769 1330 0.281879769 1330 0.28187362 34 0.08232881	cm_fftMag_spectralSlope_sma_minPos numeric	0.001018498	1	1.17227602	775	1.17227602	775
Main	udSpec_Rfilt_sma_de[22]_skewness numeric	0.000986683	1	0.63786608	796	0.63786608	796
cm_fftMag_fband1000-4000_sma_qregc3 numeric	udspec_lengthL1norm_sma_de_pctlrange0-1 numeric	0.00096522	1	0.421422035	44	0.421422035	44
adSpec.Rfilt.sma.de[7].upleveltime75 numeric	udSpec_Rfilt_sma_de[3]_quartile2 numeric	0.000914101	1	0.789074838	27	0.789074838	27
fcc_sma 12 _stddevFallingSlope numeric	cm_fftMag_fband1000-4000_sma_qregc3 numeric	0.000913065	1	0.399933308	712	0.399933308	712
cm.ftMag.spectralFlux.sma.lpC0 numeric 0.000887822 1 0.672494352 83 0.672494352 83 udSpec.Rfilt.sma.del[0].maxPos numeric 0.000876428 1 0.561174822 16 0.861174822 16 cm.RMSenergy.sma.de.stdevFsllings[ope numeric 0.000876584 1 0.281979769 1330 0.281979769 1330 udSpec.Rfilt.sma[9].percentilel.0 numeric 0.000866589 1 0.848887801 93 0.848887801 93 cm.ftMag.spectralFlux.sma.peakMeanRel numeric 0.000839713 1 0.686322689 433 0.686322689 433 udSpec.Rfilt.sma.del[2].quartile2 numeric 0.000839713 1 0.686322689 433 0.686322689 433 udSpec.Rfilt.sma.del[2].quartile2 numeric 0.000839766 1 0.52006882 2 0.520026982 24 0.520026982 24 0.520026982 24 0.520026982 24 0.520026982 24 0.520026982 24 0.520026982 24 0.520026982 24 0.520026982 24 0.520026982 24 0.520026982	udSpec_Rfilt_sma_de[7]_upleveltime75 numeric	0.000890098	1	0.495113492	1330	0.495113492	1330
udSpec.Rfilt.sma.de[17].peakRangeRel numeric 0.000886993 1 0.509827614 34 0.509827614 34 udSpec.Rfilt.sma.de[0].maxPos numeric 0.000876804 1 0.881174822 16 0.81174822 16 udSpec.Rfilt.sma.glopercatifel.to.numeric 0.000876804 1 0.848887801 93 0.84887801 93 cm.fftMag.spectralFlux.sma.peakMeanRel numeric 0.000853217 1 0.259635895 117 0.259635895 117 cm.fftMag.spectralEntorp.sma.peakDistStddev numeric 0.000832913 1 0.686322689 433 0.866322689 433 udSpec.Rfilt.sma.de[4]-quartile2 numeric 0.000832918 1 0.41569834 208 0.496914715 32 0.496914715 32 udSpec.Rfilt.sma.de[2].quartile2 numeric 0.000829248 1 0.11569834 208 0.411569834 208 0.411569834 208 0.411569834 208 0.431569834 208 0.411569834 208 0.431569834 208 0.431569834 208 0.52026982 24 0.52026982 24 0.52026982 <td>fcc_sma[12]_stddevFallingSlope numeric</td> <td>0.000889177</td> <td>1</td> <td>0.514449418</td> <td>41</td> <td>0.514449418</td> <td>41</td>	fcc_sma[12]_stddevFallingSlope numeric	0.000889177	1	0.514449418	41	0.514449418	41
udSpec_Rfilt.sma.de[0]_maxPos numeric 0.000875428 1 0.861174822 16 0.661174822 16 cm_RMSenergy_sma.de_stddevFallingSlope numeric 0.000875804 1 0.281979769 1330 0.281979769 1330 cm_fftMag_spectralFlux_sma.lpeA numeric 0.00085321 1 0.28638595 117 0.259635895 117 cm_fftMag_spectralFlux_sma.lpeA numeric 0.000838031 1 0.686322689 433 0.686322689 433 udSpec_Rfilt.sma.de[2]_quartile2 numeric 0.00083803 1 0.41656934 208 0.411569834 208 udSpec_Rfilt.sma.de[2]_quartile2 numeric 0.00083076 1 0.520026982 24 0.520026982 24 udSpec_Rfilt.sma.de[12]_upleveltime90 numeric 0.000762018 1 0.829185367 27 0.829185367 27 0.829185367 27 0.829185367 27 0.829185367 27 0.829185367 27 0.829185367 27 0.829185367 27 0.829185367 27 0.829185367 27 0.829185367 27 0.829185367	cm_fftMag_spectralFlux_sma_lpc0 numeric	0.000887822	1	0.672494352	83	0.672494352	83
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