Radiogenomics Analysis Report

22/09/2021 13:01:03

---------------------------Model inputs------------------------------

Mode:Train

Model:multiTaskLinearModel

Params:default

No. of imaging features provided: 540

No. of gene features provided:976

SampleID check results: 'The SampleIDs match for imaging and gene features'

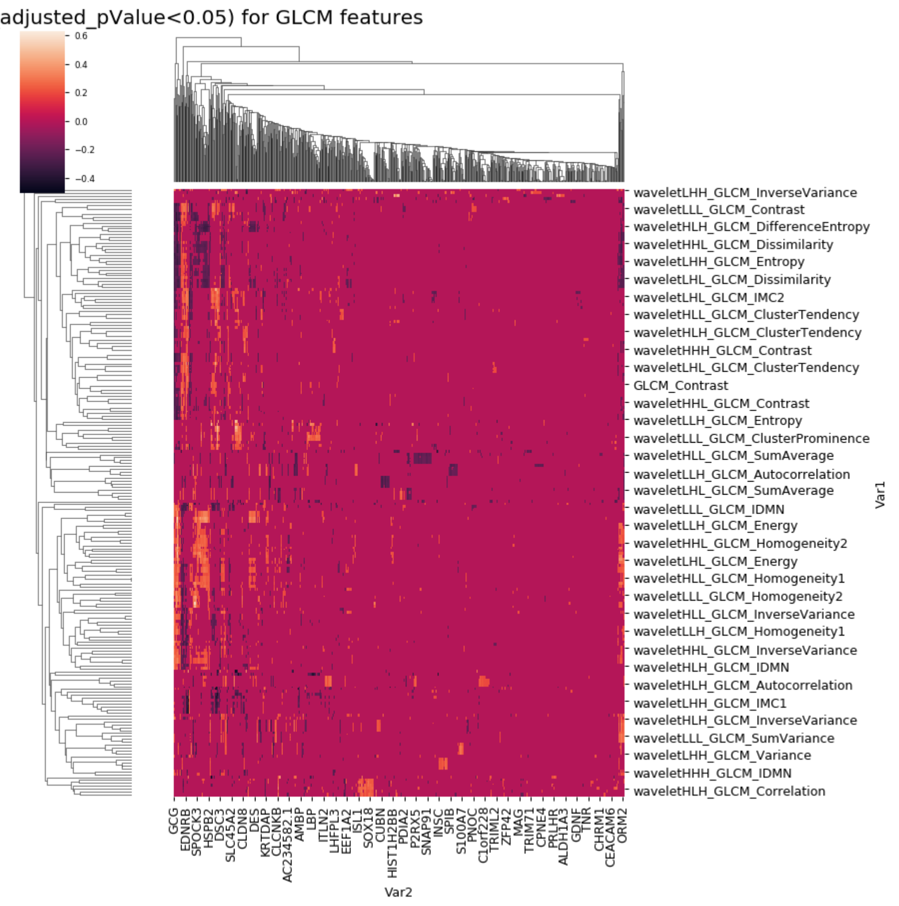
No. of samples: 106

performing Stand_scaler normalization for imaging features

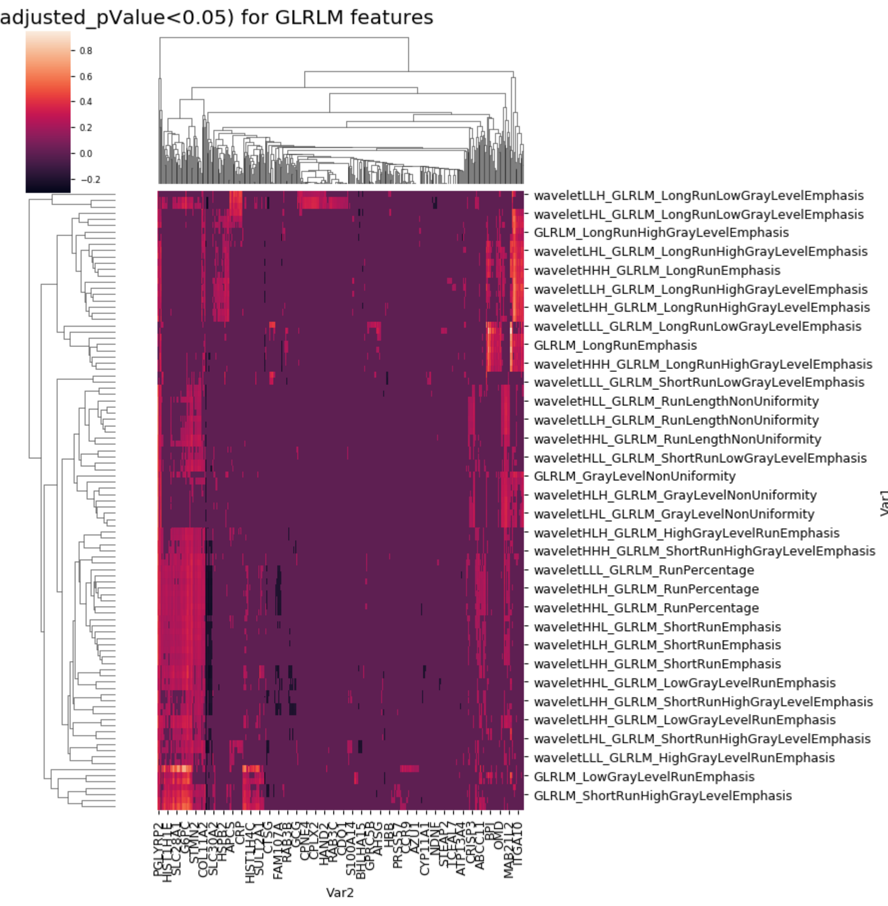
performing Stand_scaler for gene features

--------------------------Multivariate Correlations (pearson based)-----------------------

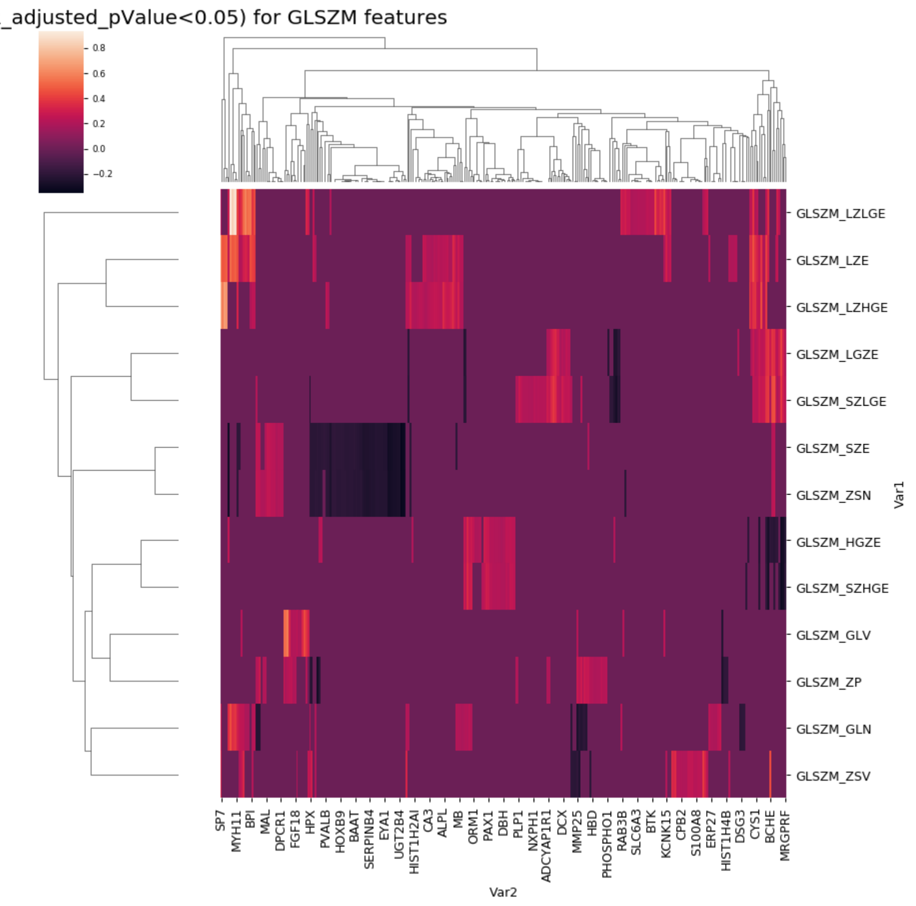
Top significant correlations (FDR_adjusted_pValue<0.05) for GLCM features



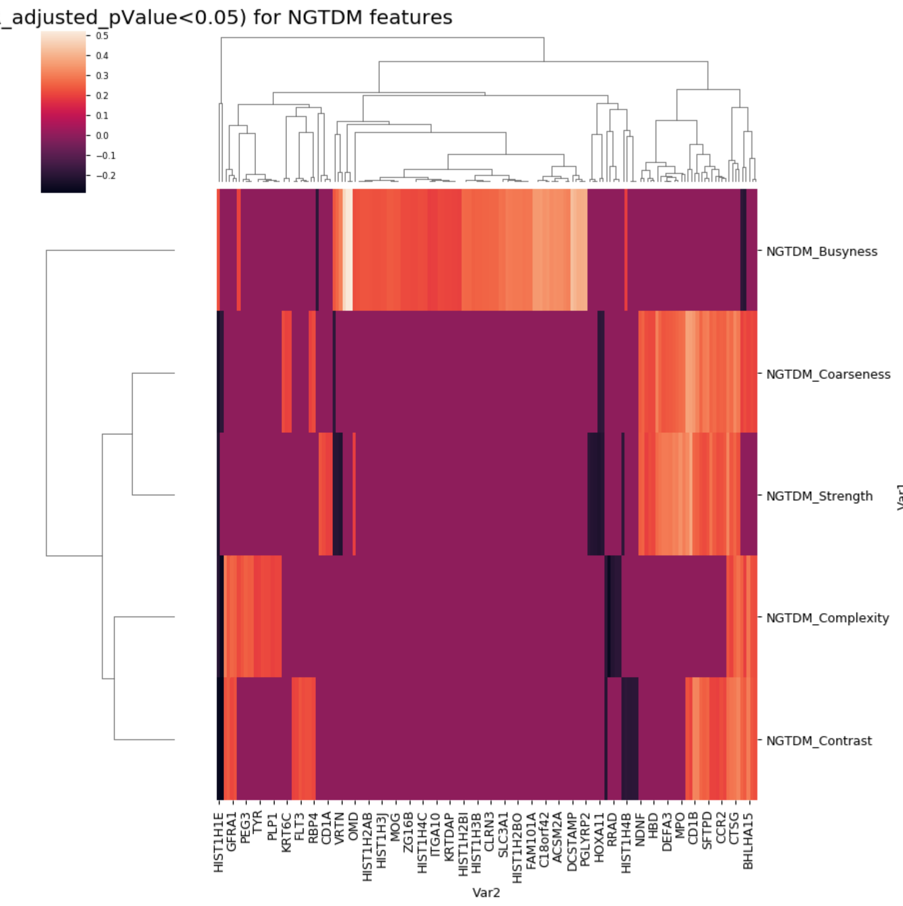
Top significant correlations (FDR_adjusted_pValue<0.05) for GLRLM features



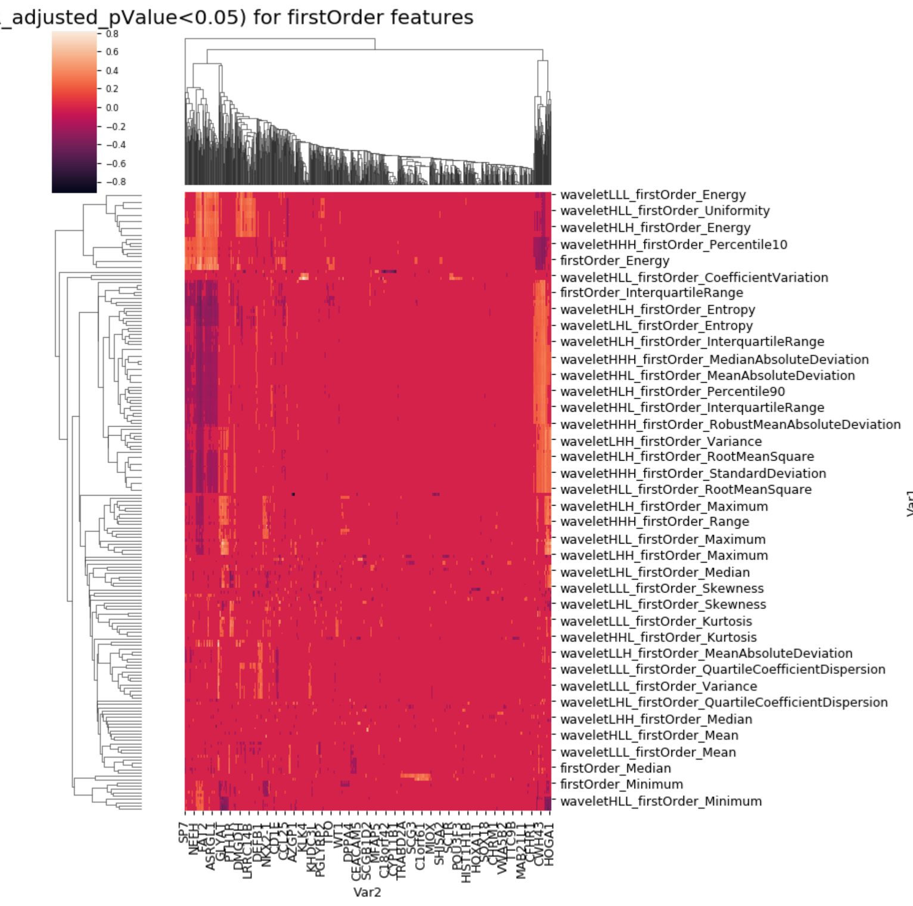
Top significant correlations (FDR_adjusted_pValue<0.05) for GLSZM features



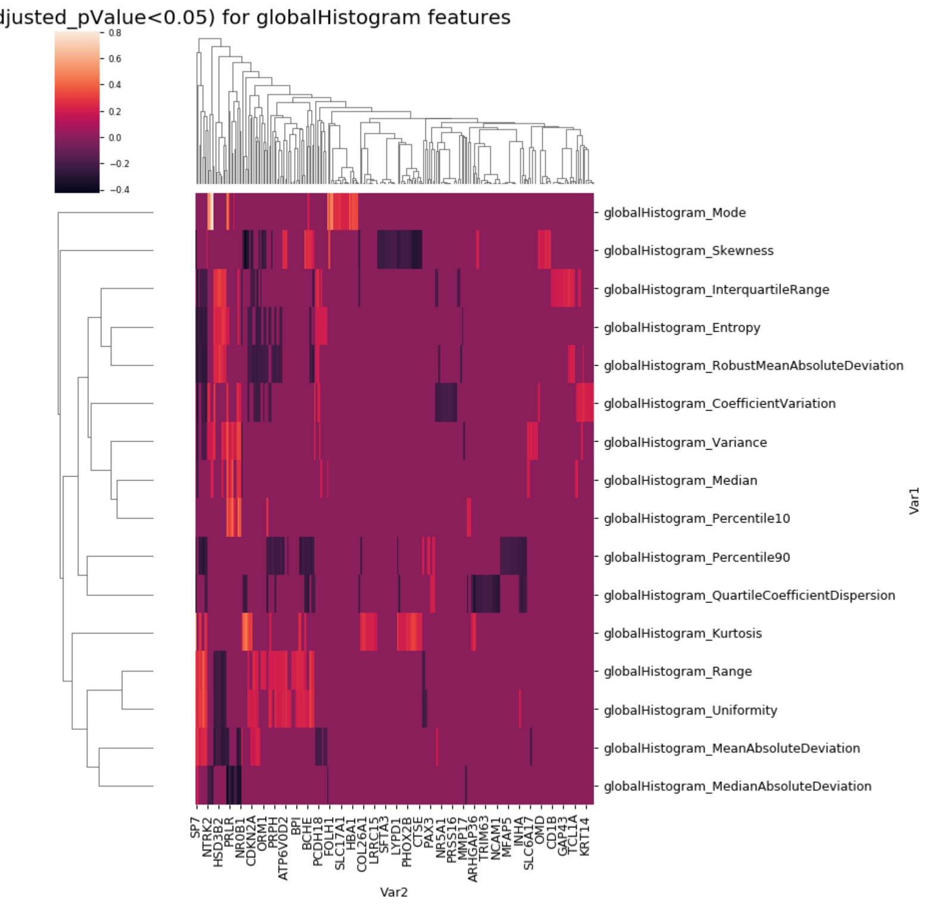
Top significant correlations (FDR_adjusted_pValue<0.05) for NGTDM features



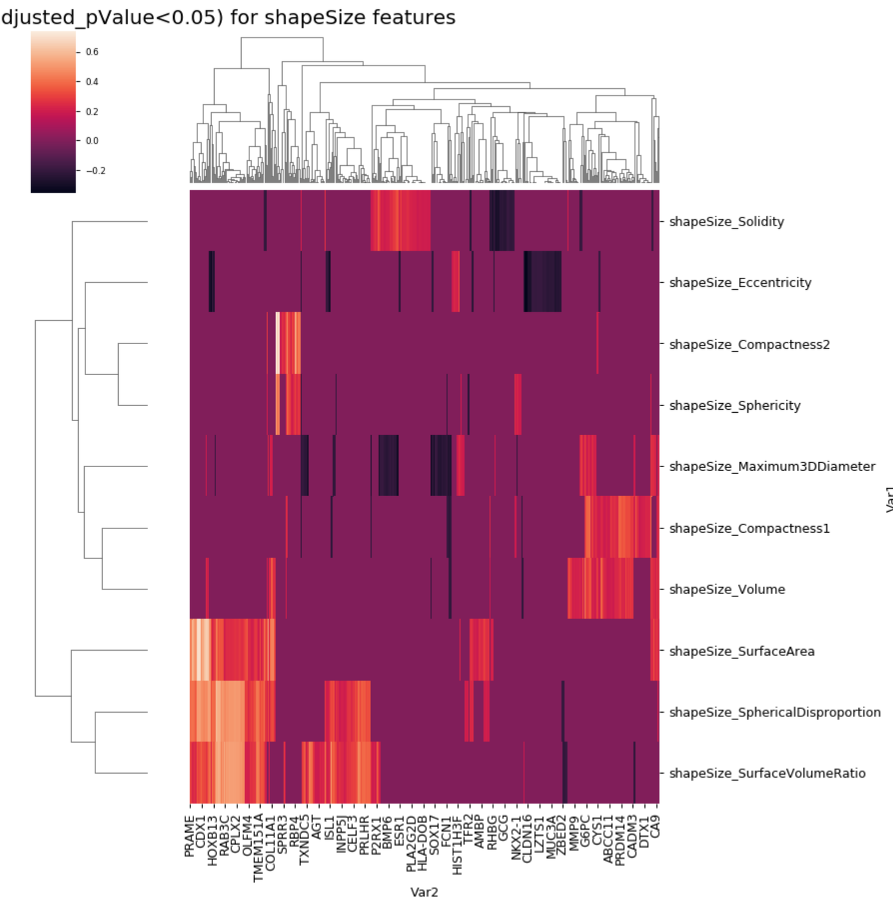
Top significant correlations (FDR_adjusted_pValue<0.05) for firstOrder features



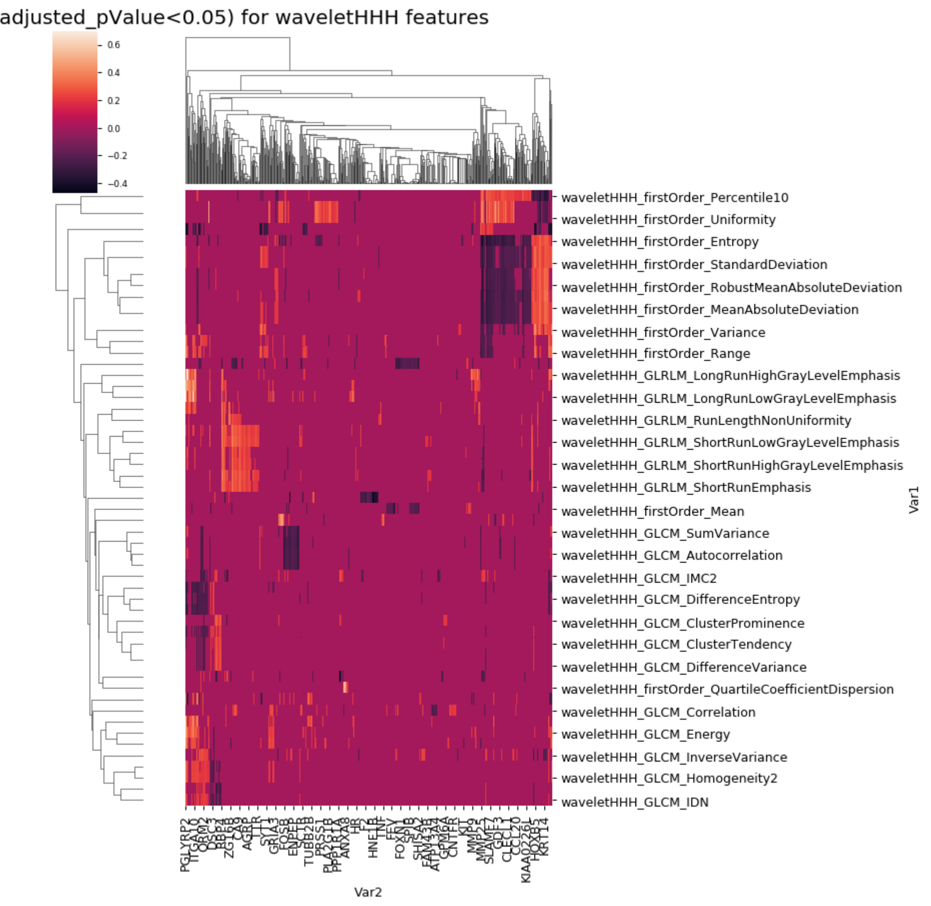
Top significant correlations (FDR_adjusted_pValue<0.05) for globalHistogram features



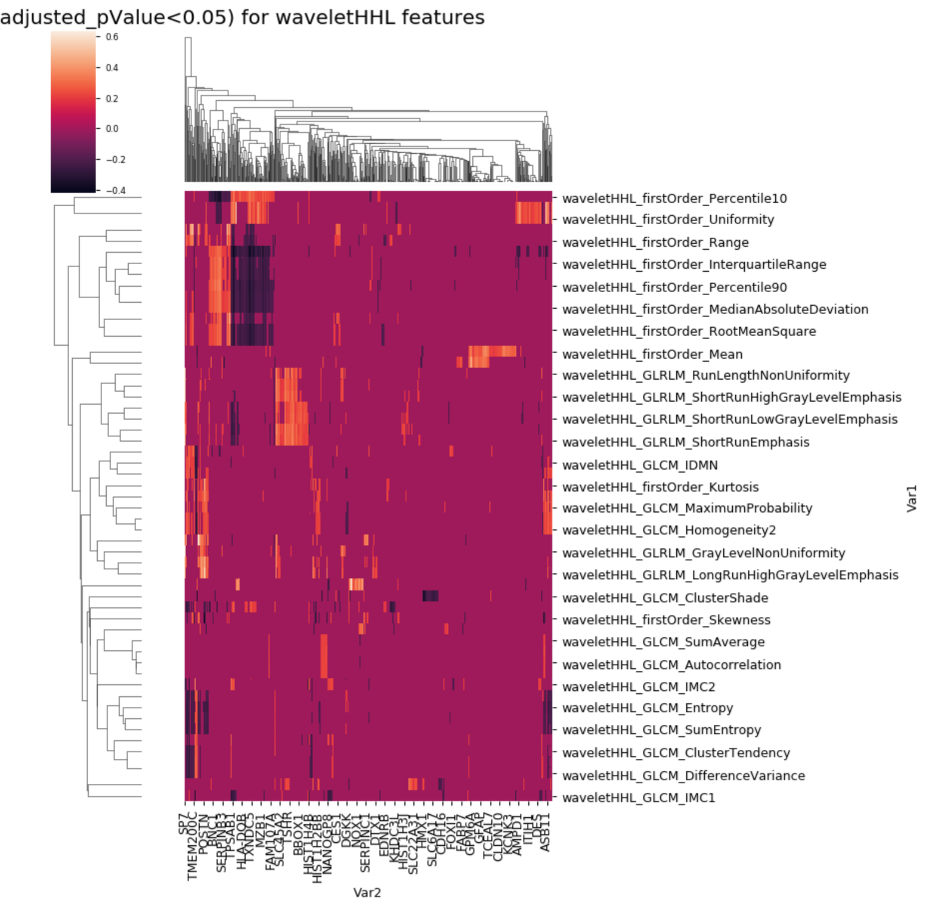
Top significant correlations (FDR_adjusted_pValue<0.05) for shapeSize features



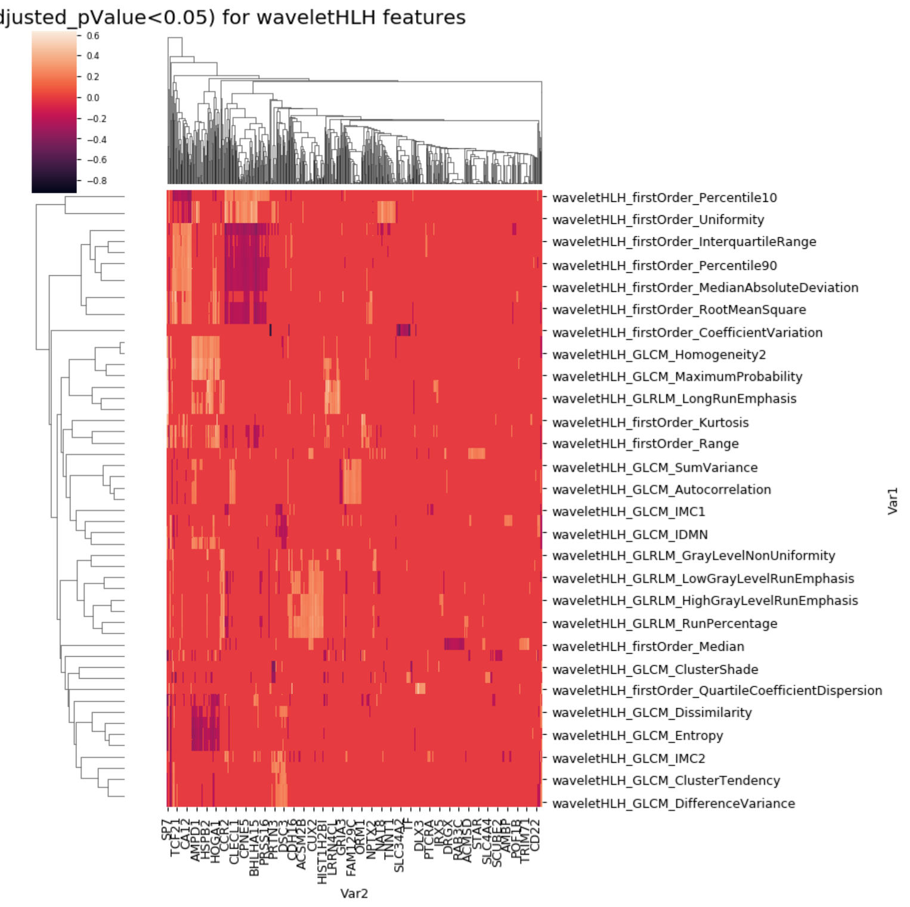
Top significant correlations (FDR_adjusted_pValue<0.05) for waveletHHH features



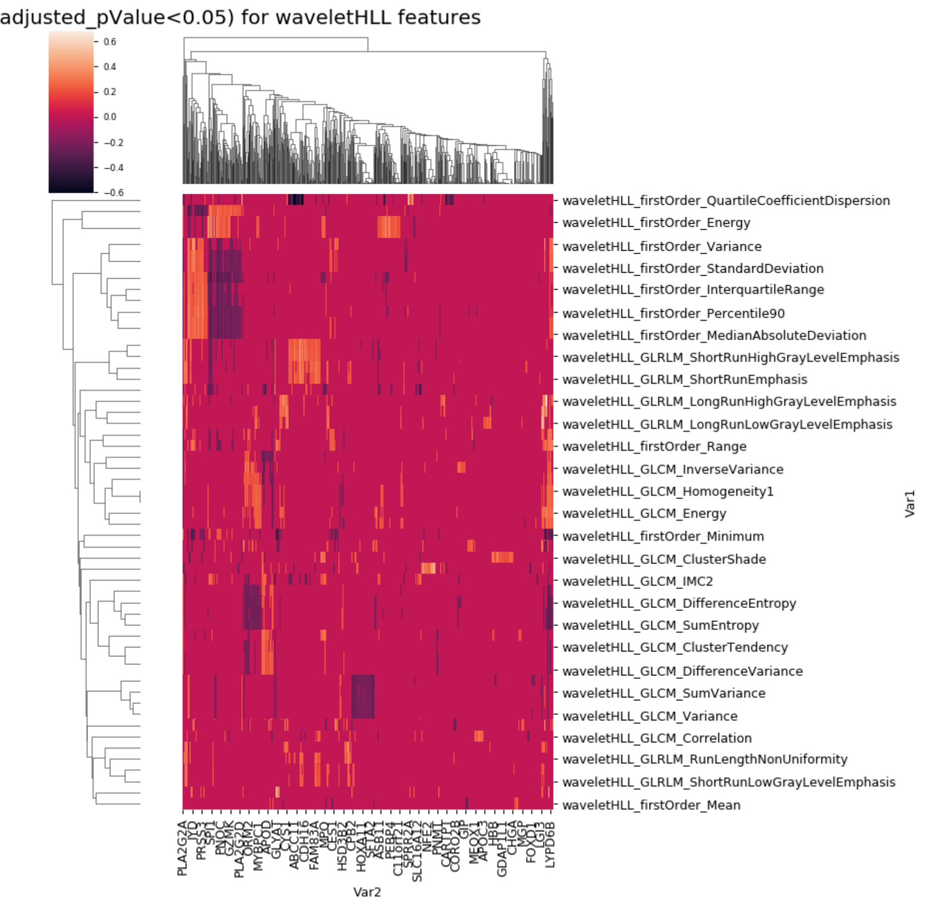
Top significant correlations (FDR_adjusted_pValue<0.05) for waveletHHL features



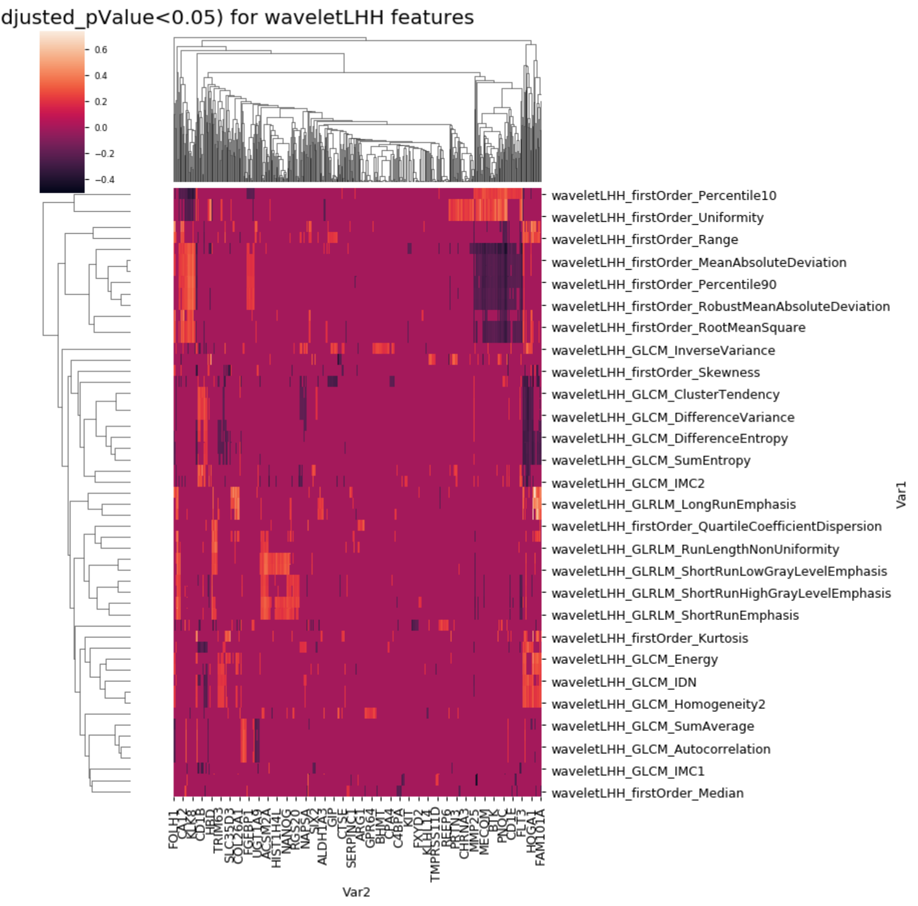
Top significant correlations (FDR_adjusted_pValue<0.05) for waveletHLH features



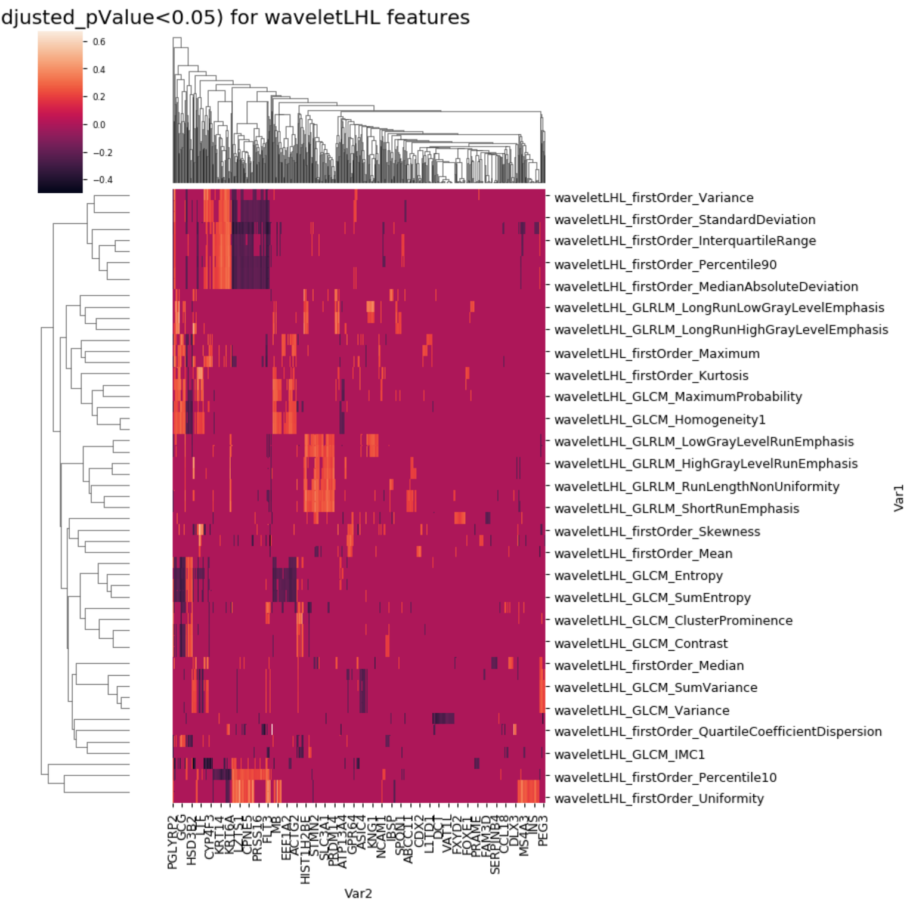
Top significant correlations (FDR_adjusted_pValue<0.05) for waveletHLL features



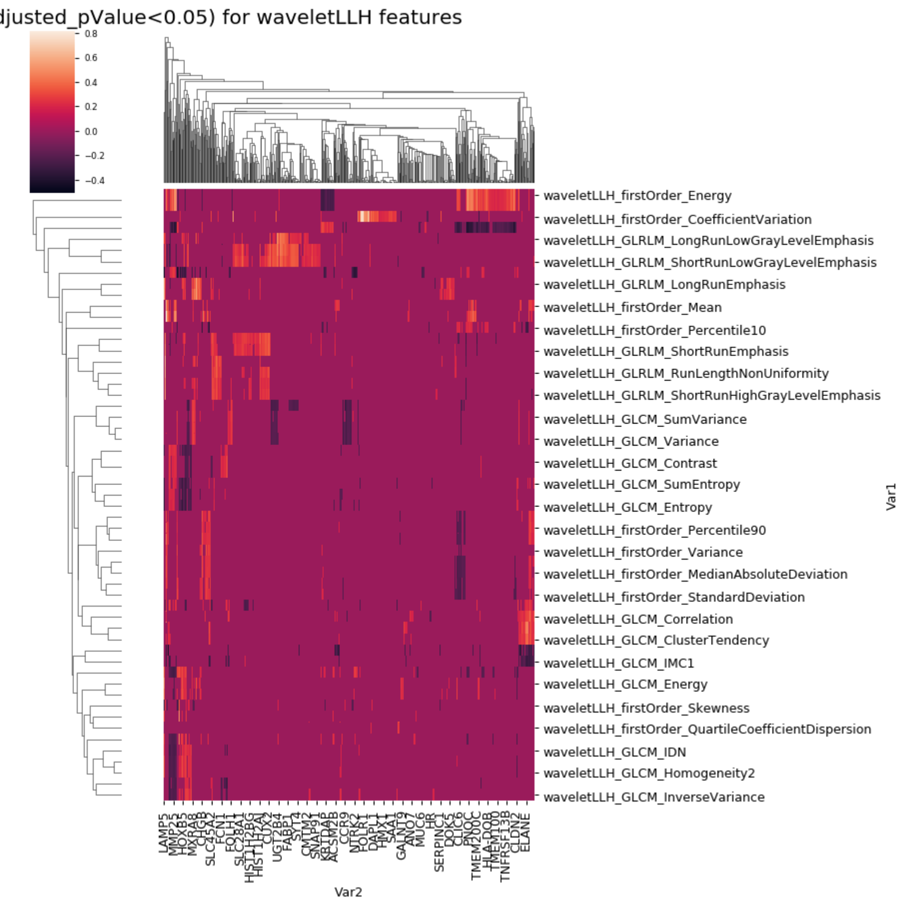
Top significant correlations (FDR_adjusted_pValue<0.05) for waveletLHH features



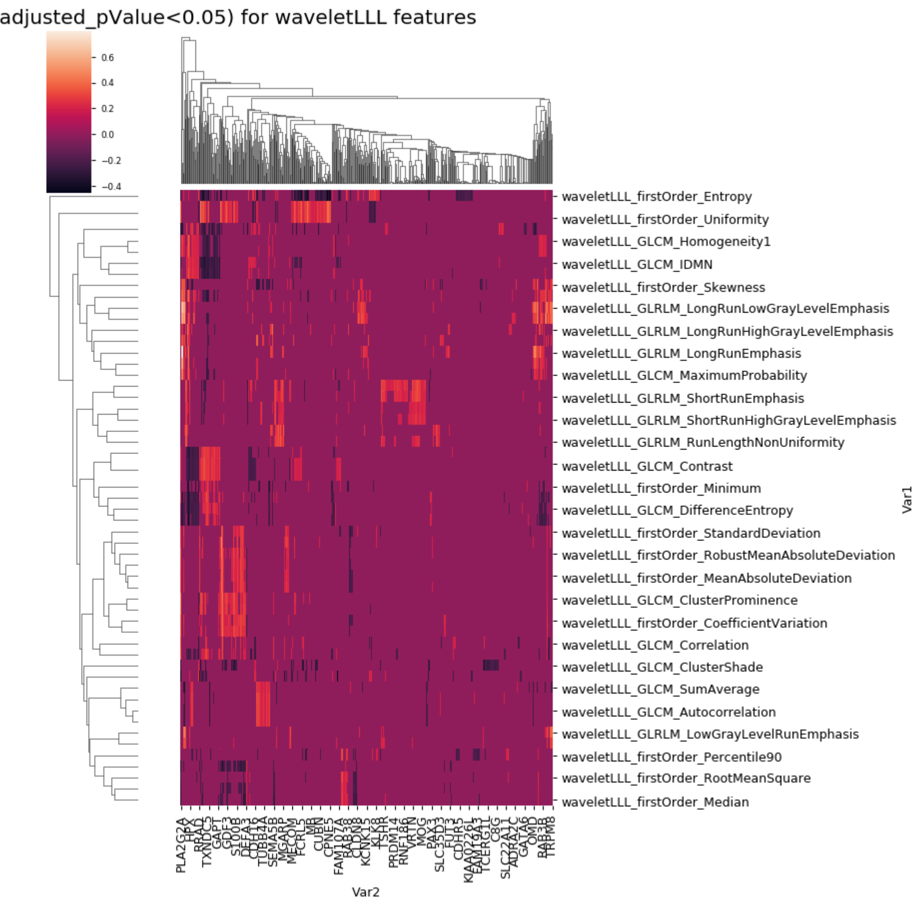
Top significant correlations (FDR_adjusted_pValue<0.05) for waveletLHL features



Top significant correlations (FDR_adjusted_pValue<0.05) for waveletLLH features



Top significant correlations (FDR_adjusted_pValue<0.05) for waveletLLL features



----------------------------------Features with highly significant correlations-----------------------------------

Below is the list of imaging features

['GLCM_Autocorrelation', 'GLCM_ClusterProminence', 'GLCM_ClusterShade', 'GLCM_ClusterTendency', 'GLCM_Contrast', 'GLCM_Correlation', 'GLCM_DifferenceEntropy', 'GLCM_DifferenceVariance', 'GLCM_Dissimilarity', 'GLCM_Energy', 'GLCM_Entropy', 'GLCM_Homogeneity1', 'GLCM_Homogeneity2', 'GLCM_IDMN', 'GLCM_IDN', 'GLCM_IMC1', 'GLCM_IMC2', 'GLCM_InverseVariance', 'GLCM_MaximumProbability', 'GLCM_SumAverage', 'GLCM_SumEntropy', 'GLCM_SumVariance', 'GLCM_Variance', 'GLRLM_GrayLevelNonUniformity', 'GLRLM_HighGrayLevelRunEmphasis', 'GLRLM_LongRunEmphasis', 'GLRLM_LongRunHighGrayLevelEmphasis', 'GLRLM_LongRunLowGrayLevelEmphasis', 'GLRLM_LowGrayLevelRunEmphasis', 'GLRLM_RunLengthNonUniformity', 'GLRLM_RunPercentage', 'GLRLM_ShortRunEmphasis', 'GLRLM_ShortRunHighGrayLevelEmphasis', 'GLRLM_ShortRunLowGrayLevelEmphasis', 'GLSZM_GLN', 'GLSZM_GLV', 'GLSZM_HGZE', 'GLSZM_LGZE', 'GLSZM_LZE', 'GLSZM_LZHGE', 'GLSZM_LZLGE', 'GLSZM_SZE', 'GLSZM_SZHGE', 'GLSZM_SZLGE', 'GLSZM_ZP', 'GLSZM_ZSN', 'GLSZM_ZSV', 'NGTDM_Busyness', 'NGTDM_Coarseness', 'NGTDM_Complexity', 'NGTDM_Contrast', 'NGTDM_Strength', 'firstOrder_CoefficientVariation', 'firstOrder_Energy', 'firstOrder_Entropy', 'firstOrder_InterquartileRange', 'firstOrder_Kurtosis', 'firstOrder_Maximum', 'firstOrder_Mean', 'firstOrder_MeanAbsoluteDeviation', 'firstOrder_Median', 'firstOrder_MedianAbsoluteDeviation', 'firstOrder_Minimum', 'firstOrder_Percentile10', 'firstOrder_Percentile90', 'firstOrder_QuartileCoefficientDispersion', 'firstOrder_Range', 'firstOrder_RobustMeanAbsoluteDeviation', 'firstOrder_RootMeanSquare', 'firstOrder_Skewness', 'firstOrder_StandardDeviation', 'firstOrder_Uniformity', 'firstOrder_Variance', 'globalHistogram_CoefficientVariation', 'globalHistogram_Entropy', 'globalHistogram_InterquartileRange', 'globalHistogram_Kurtosis', 'globalHistogram_MeanAbsoluteDeviation', 'globalHistogram_Median', 'globalHistogram_MedianAbsoluteDeviation', 'globalHistogram_Mode', 'globalHistogram_Percentile10', 'globalHistogram_Percentile90', 'globalHistogram_QuartileCoefficientDispersion', 'globalHistogram_Range', 'globalHistogram_RobustMeanAbsoluteDeviation', 'globalHistogram_Skewness', 'globalHistogram_Uniformity', 'globalHistogram_Variance', 'shapeSize_Compactness1', 'shapeSize_Compactness2', 'shapeSize_Eccentricity', 'shapeSize_Maximum3DDiameter', 'shapeSize_SphericalDisproportion', 'shapeSize_Sphericity', 'shapeSize_Solidity', 'shapeSize_SurfaceArea', 'shapeSize_SurfaceVolumeRatio', 'shapeSize_Volume', 'waveletHHH_GLCM_Autocorrelation', 'waveletHHH_GLCM_ClusterProminence', 'waveletHHH_GLCM_ClusterShade', 'waveletHHH_GLCM_ClusterTendency', 'waveletHHH_GLCM_Contrast', 'waveletHHH_GLCM_Correlation', 'waveletHHH_GLCM_DifferenceEntropy', 'waveletHHH_GLCM_DifferenceVariance', 'waveletHHH_GLCM_Dissimilarity', 'waveletHHH_GLCM_Energy', 'waveletHHH_GLCM_Entropy', 'waveletHHH_GLCM_Homogeneity1', 'waveletHHH_GLCM_Homogeneity2', 'waveletHHH_GLCM_IDMN', 'waveletHHH_GLCM_IDN', 'waveletHHH_GLCM_IMC1', 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'waveletLLH_GLRLM_LongRunLowGrayLevelEmphasis', 'waveletLLH_GLRLM_LowGrayLevelRunEmphasis', 'waveletLLH_GLRLM_RunLengthNonUniformity', 'waveletLLH_GLRLM_RunPercentage', 'waveletLLH_GLRLM_ShortRunEmphasis', 'waveletLLH_GLRLM_ShortRunHighGrayLevelEmphasis', 'waveletLLH_GLRLM_ShortRunLowGrayLevelEmphasis', 'waveletLLH_firstOrder_CoefficientVariation', 'waveletLLH_firstOrder_Energy', 'waveletLLH_firstOrder_Entropy', 'waveletLLH_firstOrder_InterquartileRange', 'waveletLLH_firstOrder_Kurtosis', 'waveletLLH_firstOrder_Maximum', 'waveletLLH_firstOrder_Mean', 'waveletLLH_firstOrder_MeanAbsoluteDeviation', 'waveletLLH_firstOrder_Median', 'waveletLLH_firstOrder_MedianAbsoluteDeviation', 'waveletLLH_firstOrder_Minimum', 'waveletLLH_firstOrder_Percentile10', 'waveletLLH_firstOrder_Percentile90', 'waveletLLH_firstOrder_QuartileCoefficientDispersion', 'waveletLLH_firstOrder_Range', 'waveletLLH_firstOrder_RobustMeanAbsoluteDeviation', 'waveletLLH_firstOrder_RootMeanSquare', 'waveletLLH_firstOrder_Skewness', 'waveletLLH_firstOrder_StandardDeviation', 'waveletLLH_firstOrder_Uniformity', 'waveletLLH_firstOrder_Variance', 'waveletLLL_GLCM_Autocorrelation', 'waveletLLL_GLCM_ClusterProminence', 'waveletLLL_GLCM_ClusterShade', 'waveletLLL_GLCM_ClusterTendency', 'waveletLLL_GLCM_Contrast', 'waveletLLL_GLCM_Correlation', 'waveletLLL_GLCM_DifferenceEntropy', 'waveletLLL_GLCM_DifferenceVariance', 'waveletLLL_GLCM_Dissimilarity', 'waveletLLL_GLCM_Energy', 'waveletLLL_GLCM_Entropy', 'waveletLLL_GLCM_Homogeneity1', 'waveletLLL_GLCM_Homogeneity2', 'waveletLLL_GLCM_IDMN', 'waveletLLL_GLCM_IDN', 'waveletLLL_GLCM_IMC1', 'waveletLLL_GLCM_IMC2', 'waveletLLL_GLCM_InverseVariance', 'waveletLLL_GLCM_MaximumProbability', 'waveletLLL_GLCM_SumAverage', 'waveletLLL_GLCM_SumEntropy', 'waveletLLL_GLCM_SumVariance', 'waveletLLL_GLCM_Variance', 'waveletLLL_GLRLM_GrayLevelNonUniformity', 'waveletLLL_GLRLM_HighGrayLevelRunEmphasis', 'waveletLLL_GLRLM_LongRunEmphasis', 'waveletLLL_GLRLM_LongRunHighGrayLevelEmphasis', 'waveletLLL_GLRLM_LongRunLowGrayLevelEmphasis', 'waveletLLL_GLRLM_LowGrayLevelRunEmphasis', 'waveletLLL_GLRLM_RunLengthNonUniformity', 'waveletLLL_GLRLM_RunPercentage', 'waveletLLL_GLRLM_ShortRunEmphasis', 'waveletLLL_GLRLM_ShortRunHighGrayLevelEmphasis', 'waveletLLL_GLRLM_ShortRunLowGrayLevelEmphasis', 'waveletLLL_firstOrder_CoefficientVariation', 'waveletLLL_firstOrder_Energy', 'waveletLLL_firstOrder_Entropy', 'waveletLLL_firstOrder_InterquartileRange', 'waveletLLL_firstOrder_Kurtosis', 'waveletLLL_firstOrder_Maximum', 'waveletLLL_firstOrder_Mean', 'waveletLLL_firstOrder_MeanAbsoluteDeviation', 'waveletLLL_firstOrder_Median', 'waveletLLL_firstOrder_MedianAbsoluteDeviation', 'waveletLLL_firstOrder_Minimum', 'waveletLLL_firstOrder_Percentile10', 'waveletLLL_firstOrder_Percentile90', 'waveletLLL_firstOrder_QuartileCoefficientDispersion', 'waveletLLL_firstOrder_Range', 'waveletLLL_firstOrder_RobustMeanAbsoluteDeviation', 'waveletLLL_firstOrder_RootMeanSquare', 'waveletLLL_firstOrder_Skewness', 'waveletLLL_firstOrder_StandardDeviation', 'waveletLLL_firstOrder_Uniformity', 'waveletLLL_firstOrder_Variance']

Below is the list of gene features

['11-Mar', 'ABCB5', 'ABCC11', 'AC234582.1', 'ACMSD', 'ACSM1', 'ACSM2A', 'ACSM2B', 'ACTG2', 'ACTL6B', 'ADCYAP1R1', 'ADH1A', 'ADRA2C', 'ADRB1', 'AGR3', 'AGRP', 'AGT', 'AGXT', 'AGXT2', 'AHSG', 'AHSP', 'AICDA', 'AIM2', 'AKR1C4', 'ALB', 'ALDH1A3', 'ALDH1L2', 'ALPL', 'ALPPL2', 'ALX1', 'AMBP', 'AMER2', 'AMHR2', 'AMPD1', 'ANO7', 'ANXA10', 'ANXA13', 'ANXA8', 'AOC1', 'APCS', 'APLP1', 'APOA1', 'APOA2', 'APOB', 'APOBEC2', 'APOC3', 'APOD', 'APOH', 'AQP4', 'AR', 'ARG1', 'ARHGAP36', 'ARPP21', 'ASB11', 'ASCL2', 'ASGR2', 'ASIC4', 'ASRGL1', 'ATCAY', 'ATP13A4', 'ATP1A3', 'ATP6V0A4', 'ATP6V0D2', 'ATP6V1B1', 'AXIN2', 'AZGP1', 'AZU1', 'BAALC', 'BAAT', 'BBOX1', 'BCAN', 'BCHE', 'BEND5', 'BEX1', 'BHLHA15', 'BHMT', 'BHMT2', 'BIRC7', 'BLK', 'BMP6', 'BMPER', 'BNC1', 'BPI', 'BPIFB1', 'BRINP1', 'BRINP2', 'BSND', 'BTK', 'C10orf99', 'C11orf21', 'C14orf105', 'C16orf89', 'C18orf42', 'C1QL1', 'C1QTNF4', 'C1orf186', 'C1orf228', 'C1orf61', 'C2orf40', 'C2orf88', 'C4BPA', 'C7', 'C8B', 'C8G', 'C8orf46', 'CA12', 'CA14', 'CA3', 'CA9', 'CACNG7', 'CADM3', 'CALB2', 'CALML3', 'CALML5', 'CAPN3', 'CAPN8', 'CAPS', 'CARTPT', 'CBFA2T3', 'CCL13', 'CCL18', 'CCL19', 'CCL20', 'CCL24', 'CCL25', 'CCNA1', 'CCR2', 'CCR9', 'CD177', 'CD19', 'CD1A', 'CD1B', 'CD1C', 'CD1E', 'CD22', 'CD3D', 'CD70', 'CD79B', 'CD8B', 'CDC42EP5', 'CDH15', 'CDH16', 'CDH17', 'CDHR5', 'CDK5R2', 'CDKN2A', 'CDO1', 'CDX1', 'CDX2', 'CEACAM3', 'CEACAM5', 'CEACAM6', 'CEACAM7', 'CEACAM8', 'CELF3', 'CES1', 'CFHR1', 'CFTR', 'CH507-42P11.8', 'CHAD', 'CHGA', 'CHGB', 'CHRM1', 'CHRNA2', 'CHRNA3', 'CHST4', 'CILP', 'CITED1', 'CLC', 'CLCNKB', 'CLDN10', 'CLDN16', 'CLDN2', 'CLDN6', 'CLDN8', 'CLEC17A', 'CLECL1', 'CLIC6', 'CLRN3', 'CMTM2', 'CNGB1', 'CNTFR', 'COL11A1', 'COL11A2', 'COL17A1', 'COL26A1', 'COL2A1', 'COMP', 'CORO2B', 'CP', 'CPA4', 'CPB1', 'CPB2', 'CPLX2', 'CPNE4', 'CPNE5', 'CRABP1', 'CRISP3', 'CRP', 'CRTAC1', 'CRYAB', 'CRYGN', 'CST1', 'CTNND2', 'CTSE', 'CTSG', 'CTSV', 'CUBN', 'CUX2', 'CWH43', 'CXCL17', 'CXCL5', 'CXCL6', 'CXCL8', 'CXCR2', 'CYP11A1', 'CYP11B1', 'CYP17A1', 'CYP21A2', 'CYP2E1', 'CYP4B1', 'CYP4F3', 'CYS1', 'CYSLTR1', 'D4S234E', 'DAAM2', 'DACH1', 'DAPL1', 'DBH', 'DCDC2', 'DCSTAMP', 'DCT', 'DCX', 'DDC', 'DEFA3', 'DEFA4', 'DEFB1', 'DERL3', 'DES', 'DGKK', 'DHRS2', 'DKK1', 'DLK1', 'DLX3', 'DLX5', 'DMBT1', 'DMGDH', 'DMRT2', 'DNER', 'DNTT', 'DOK5', 'DPCR1', 'DPEP1', 'DPPA3', 'DPPA4', 'DPPA5', 'DPYS', 'DRD2', 'DRGX', 'DSC3', 'DSG1', 'DSG3', 'DTX1', 'DUSP26', 'DUSP5', 'EDNRB', 'EEF1A2', 'EFHD1', 'EGFL6', 'ELANE', 'ELAVL4', 'EMR3', 'ENPEP', 'ENPP3', 'EPHX3', 'ERP27', 'ESR1', 'EXTL1', 'EYA1', 'F13B', 'F2', 'F7', 'FABP1', 'FABP7', 'FAIM2', 'FAIM3', 'FAM101A', 'FAM107A', 'FAM129C', 'FAM131B', 'FAM163A', 'FAM163B', 'FAM166B', 'FAM19A3', 'FAM19A4', 'FAM3D', 'FAM43B', 'FAM83A', 'FAT2', 'FCGBP', 'FCGR3B', 'FCN1', 'FCRL2', 'FCRL3', 'FCRL5', 'FCRLA', 'FEV', 'FGA', 'FGB', 'FGF18', 'FGF21', 'FGF8', 'FGF9', 'FGFBP1', 'FGG', 'FGL1', 'FLT3', 'FOLH1', 'FOLR1', 'FOSB', 'FOXA1', 'FOXA2', 'FOXA3', 'FOXC1', 'FOXC2', 'FOXD1', 'FOXE1', 'FOXH1', 'FOXI1', 'FOXJ1', 'FOXN1', 'FUT3', 'FXYD2', 'G6PC', 'GABBR2', 'GALNT9', 'GAP43', 'GAPDHS', 'GAPT', 'GATA2', 'GATA3', 'GATA4', 'GATA6', 'GBP6', 'GC', 'GCG', 'GCGR', 'GDAP1L1', 'GDF3', 'GDNF', 'GFAP', 'GFRA1', 'GFRA3', 'GIP', 'GJB1', 'GLT1D1', 'GLYAT', 'GNG3', 'GNG7', 'GPA33', 'GPM6A', 'GPM6B', 'GPR143', 'GPR37L1', 'GPR64', 'GPR97', 'GPRC5B', 'GPRC5D', 'GPX2', 'GREM1', 'GRIA3', 'GSTA1', 'GSTA2', 'GSTA3', 'GUCY2C', 'GYG2', 'GZMK', 'HAND1', 'HAND2', 'HAS1', 'HAS2', 'HBA1', 'HBB', 'HBD', 'HDGFL1', 'HEPACAM', 'HEPACAM2', 'HEPHL1', 'HFE2', 'HIST1H1B', 'HIST1H1D', 'HIST1H1E', 'HIST1H2AB', 'HIST1H2AH', 'HIST1H2AI', 'HIST1H2AJ', 'HIST1H2AL', 'HIST1H2AM', 'HIST1H2BB', 'HIST1H2BE', 'HIST1H2BF', 'HIST1H2BG', 'HIST1H2BH', 'HIST1H2BI', 'HIST1H2BL', 'HIST1H2BO', 'HIST1H3B', 'HIST1H3C', 'HIST1H3D', 'HIST1H3F', 'HIST1H3G', 'HIST1H3I', 'HIST1H3J', 'HIST1H4A', 'HIST1H4B', 'HIST1H4C', 'HIST1H4D', 'HIST1H4E', 'HIST1H4F', 'HIST1H4L', 'HIST2H2AB', 'HIST2H2AC', 'HLA-DOB', 'HMP19', 'HMX1', 'HNF1B', 'HNF4A', 'HOGA1', 'HOXA11', 'HOXA5', 'HOXA9', 'HOXB13', 'HOXB5', 'HOXB6', 'HOXB8', 'HOXB9', 'HOXC10', 'HOXD11', 'HOXD8', 'HP', 'HPX', 'HR', 'HRG', 'HSD11B2', 'HSD3B2', 'HSPA2', 'HSPB2', 'HSPB6', 'IBSP', 'ICAM3', 'IFITM5', 'IGF2', 'IGFBP1', 'IGJ', 'IGLL1', 'IGSF1', 'IL18RAP', 'IL21R', 'IL36G', 'IL36RN', 'INHA', 'INMT', 'INPP5J', 'INS', 'INSC', 'INSM1', 'INSM2', 'IRF4', 'IRX5', 'ISL1', 'ITGA10', 'ITIH1', 'ITIH2', 'ITIH3', 'ITIH5', 'ITLN1', 'ITLN2', 'IVL', 'IYD', 'KCNJ15', 'KCNJ16', 'KCNK15', 'KCNK3', 'KCNQ2', 'KHDC3L', 'KIAA0226L', 'KIAA1324', 'KIF26A', 'KIT', 'KL', 'KLHDC8A', 'KLHL14', 'KLK1', 'KLK3', 'KLK4', 'KLK5', 'KLK6', 'KLK7', 'KLK8', 'KNG1', 'KREMEN2', 'KRT13', 'KRT14', 'KRT15', 'KRT16', 'KRT17', 'KRT20', 'KRT5', 'KRT6A', 'KRT6B', 'KRT6C', 'KRTDAP', 'L1TD1', 'LAMP5', 'LBP', 'LCN12', 'LEFTY1', 'LGALS4', 'LGALS7B', 'LGI3', 'LGR5', 'LHFPL3', 'LIM2', 'LIN28A', 'LMO3', 'LMX1B', 'LPAR3', 'LRMP', 'LRP2', 'LRRC14B', 'LRRC15', 'LRRC26', 'LRRN1', 'LRRN4CL', 'LTB', 'LTF', 'LYG1', 'LYPD1', 'LYPD6B', 'LZTS1', 'MAB21L1', 'MAB21L2', 'MAG', 'MAL', 'MARCO', 'MAT1A', 'MB', 'MECOM', 'MEF2B', 'MEOX1', 'MEP1A', 'MEST', 'MFAP5', 'MGAM', 'MGARP', 'MGP', 'MIA', 'MIOX', 'MITF', 'MIXL1', 'MLANA', 'MLC1', 'MLPH', 'MMP1', 'MMP10', 'MMP12', 'MMP17', 'MMP25', 'MMP3', 'MMP8', 'MMP9', 'MOG', 'MPO', 'MRGPRF', 'MS4A1', 'MS4A3', 'MSLN', 'MSMB', 'MSX1', 'MT3', 'MTRNR2L12', 'MTRNR2L8', 'MUC13', 'MUC15', 'MUC16', 'MUC3A', 'MUC5AC', 'MUC6', 'MXRA8', 'MYBPC1', 'MYCN', 'MYH11', 'MYRF', 'MZB1', 'NANOG', 'NANOGP8', 'NAPSA', 'NAT8', 'NCAM1', 'NCAN', 'NDNF', 'NDP', 'NDUFA4L2', 'NEFH', 'NEFL', 'NEFM', 'NFE2', 'NKX2-1', 'NKX3-1', 'NLRP7', 'NNAT', 'NOX1', 'NPTX2', 'NPW', 'NPY', 'NR0B1', 'NR1H4', 'NR5A1', 'NRSN1', 'NTRK1', 'NTRK2', 'NTS', 'NXPH1', 'OCA2', 'OLFM4', 'OLIG1', 'OLIG2', 'OMD', 'OR51E1', 'OR51E2', 'ORM1', 'ORM2', 'P2RX1', 'P2RX3', 'P2RX5', 'PADI4', 'PANX3', 'PAX1', 'PAX2', 'PAX3', 'PAX5', 'PAX9', 'PCDH18', 'PCSK2', 'PDE8B', 'PDIA2', 'PDZK1', 'PEBP4', 'PEG10', 'PEG3', 'PENK', 'PF4', 'PGC', 'PGLYRP1', 'PGLYRP2', 'PHGR1', 'PHOSPHO1', 'PHOX2A', 'PHOX2B', 'PHYHIPL', 'PIGR', 'PIP', 'PKNOX2', 'PKP1', 'PLA2G1B', 'PLA2G2A', 'PLA2G2D', 'PLAC8', 'PLG', 'PLP1', 'PMEL', 'PMP2', 'PNCK', 'PNMAL2', 'PNMT', 'PNOC', 'POF1B', 'POSTN', 'POU2AF1', 'POU2F2', 'POU3F3', 'POU5F1', 'PPP1R1A', 'PRAC1', 'PRAC2', 'PRAM1', 'PRAME', 'PRDM14', 'PRG4', 'PRLHR', 'PRLR', 'PROC', 'PRPH', 'PRSS1', 'PRSS16', 'PRSS3', 'PRSS35', 'PRSS57', 'PRTN3', 'PSMB11', 'PTCRA', 'PTGDS', 'PTGER3', 'PTH1R', 'PTHLH', 'PTPRN', 'PTPRZ1', 'PVALB', 'RAB37', 'RAB38', 'RAB3B', 'RAB3C', 'RAB44', 'RAG1', 'RAG2', 'RASGRP3', 'RBP4', 'RBP5', 'REEP6', 'REG1A', 'REG4', 'RFX4', 'RGL4', 'RGS13', 'RGS20', 'RHBG', 'RHCG', 'RNASE2', 'RNF186', 'RNF43', 'RPRM', 'RRAD', 'RSPO1', 'RTN1', 'RUNDC3A', 'RXRG', 'S100A1', 'S100A12', 'S100A14', 'S100A7', 'S100A8', 'S100A9', 'S100B', 'S100P', 'SAA1', 'SALL1', 'SCARF2', 'SCG2', 'SCG3', 'SCG5', 'SCGB1A1', 'SCGB1D2', 'SCGB2A1', 'SCGB2A2', 'SCGB3A1', 'SCGB3A2', 'SCNN1B', 'SCRG1', 'SCTR', 'SCUBE2', 'SDR16C5', 'SEMA5B', 'SERPINA1', 'SERPINA5', 'SERPINA6', 'SERPINB10', 'SERPINB13', 'SERPINB3', 'SERPINB4', 'SERPINC1', 'SERPIND1', 'SERPINE2', 'SFRP2', 'SFRP5', 'SFTA2', 'SFTA3', 'SFTPA1', 'SFTPA2', 'SFTPB', 'SFTPC', 'SFTPD', 'SH2D1A', 'SHISA2', 'SHISA3', 'SHISA8', 'SIX1', 'SIX2', 'SLAMF7', 'SLC16A12', 'SLC17A1', 'SLC17A3', 'SLC17A7', 'SLC18A1', 'SLC1A2', 'SLC22A11', 'SLC22A2', 'SLC22A31', 'SLC24A2', 'SLC26A3', 'SLC26A4', 'SLC26A7', 'SLC27A6', 'SLC28A1', 'SLC30A2', 'SLC34A2', 'SLC35D3', 'SLC38A3', 'SLC3A1', 'SLC44A4', 'SLC45A2', 'SLC45A3', 'SLC4A1', 'SLC4A4', 'SLC6A13', 'SLC6A17', 'SLC6A3', 'SLC7A3', 'SLC7A4', 'SLC7A8', 'SMTNL2', 'SNAP91', 'SNCA', 'SNCG', 'SNX22', 'SOX1', 'SOX17', 'SOX18', 'SOX8', 'SP7', 'SPDEF', 'SPI1', 'SPIB', 'SPINK1', 'SPINK2', 'SPINK4', 'SPNS3', 'SPOCK3', 'SPON1', 'SPRR1A', 'SPRR1B', 'SPRR2A', 'SPRR2D', 'SPRR2E', 'SPRR3', 'SPX', 'SST', 'ST6GAL2', 'ST6GALNAC1', 'STAP1', 'STAR', 'STC2', 'STEAP2', 'STK32A', 'STMN2', 'STMN4', 'SULT2A1', 'SYP', 'SYT1', 'SYT4', 'TAGLN3', 'TBATA', 'TBX3', 'TCEAL7', 'TCERG1L', 'TCF21', 'TCL1A', 'TCN1', 'TF', 'TFF1', 'TFF2', 'TFF3', 'TFPI2', 'TFR2', 'TG', 'TGM1', 'TH', 'TIMP4', 'TLR10', 'TLX2', 'TM4SF4', 'TMEFF2', 'TMEM100', 'TMEM119', 'TMEM151A', 'TMEM200C', 'TMEM213', 'TMEM238', 'TMEM252', 'TMEM27', 'TMEM52B', 'TMEM72', 'TMPRSS11D', 'TNF', 'TNFRSF13B', 'TNFRSF13C', 'TNFRSF17', 'TNNT1', 'TNR', 'TP63', 'TPO', 'TPSAB1', 'TRABD2A', 'TRABD2B', 'TRIB1', 'TRIM15', 'TRIM31', 'TRIM50', 'TRIM63', 'TRIML2', 'TRPM1', 'TRPM8', 'TRPS1', 'TRPV6', 'TSHR', 'TSPAN32', 'TSPAN8', 'TTC9B', 'TTR', 'TTYH1', 'TUBB2B', 'TUBB4A', 'TWIST1', 'TXNDC5', 'TYR', 'TYRP1', 'UGT1A9', 'UGT2A3', 'UGT2B4', 'UGT2B7', 'UNCX', 'UPK1A', 'UPK1B', 'UPK2', 'UPK3A', 'UPK3B', 'UTF1', 'VAT1L', 'VENTX', 'VIL1', 'VPREB1', 'VRTN', 'VSIG2', 'VSTM1', 'VSTM2A', 'VTCN1', 'VTN', 'VWA5B2', 'WASF3', 'WFDC2', 'WNT10A', 'WT1', 'ZBED2', 'ZBP1', 'ZCCHC12', 'ZFP42', 'ZG16B']

Number of imaging features

539

Number of gene features

959

--------------------------------Number of Samples for Training and Testing----------------------------------

No. of samples for training:84

No. of samples for test:22

--------------------------Model Summary-----------------------

Model Type : multiTaskLinearModel

Cross Validation Metrics:

Parameters: cv=3 scoring=neg_mean_squared_error

Cross validation score:1.29570891618

Model Parameters:

normalize:False

warm_start:False

selection:cyclic

fit_intercept:True

l1_ratio:0.5

max_iter:1000

random_state:None

tol:0.0001

copy_X:True

alpha:1.0

----------------Model evaluation for Train data--------------------

Min Square Error for the Model

MSE of train_eval set:0.401702380138

No. of features showing LOW 'RMSE/Stdev' (<=1.0): 959

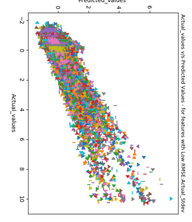
All such features with their Low 'RMSE/Stdev' values could be found in output file: train_eval_multiTaskLinearModel_Labels_with_Low_Ratio.csv

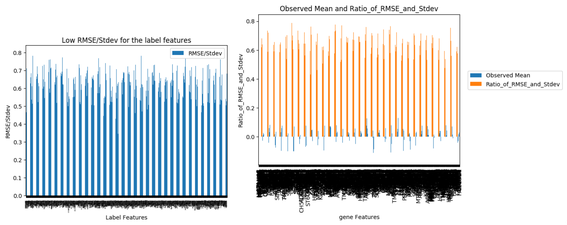
No. of features showing HIGH 'RMSE/Stdev' (>1.0): 0

All such features with their High 'RMSE/Stdev' values could be found in output file: train_eval_multiTaskLinearModel_Labels_with_High_Ratio.csv

Model evaluation for Train data for label features showing Low 'RMSE/Stdev' (<=1.0)

CD27
CD3D
CD79
CD8B
CD8B
CDC42EP5
CDH13
CDH16
CDH17
CDH85
CDK8KI
CDKN2A
COCH
COL1
COL2
CSAG4A3
CSAG4A6
CSAG4A8
CSAG4A9
CSAG4A9
CELF3
CFL1
CFHR1
CFP
CH10-42P11.8
CHAD
CHGB
CHI3L1
CHRNA2
CHRNA3
CHST14
CLP
CLTCL1
CLC
CLCA8
CLDN10
CLDN16
CLDN2
CLDN6
CLDN8
CLEC18A
CLEC1L
CLIC6
CMA1
CMTM2
CMTM3
CNTFR
COL11A1
COL13A1
COL2A1
COL2A1
COMP
COX5BP8
CP
CPA4
CPB1
CPB2
CPO
CPN2
CPNE4
CPXM1
CR1
CRISP3
CRP
CRTAC1
CRYGB
CRYGS
CST3
CTAG2
CTSE
CTSG
CUBN
CUZD1
CXorf43
CXCL17
CXCL5
CXCL6
CXCR2
CXCR3
CYP11A1
CYP11B1
CYP17A1
CYP19A1
CYP24A1
CYP4B1
CYP4F3
CYS1
CYYR1
D4S234E
DAAM2
DACH1
DAPL1
DBH
DCAF12
DCSTAMP
DCT
DDC
DDC
DEFA3
DEFB4
DEFB4
DEK
DEK
DHRS2
DIO1
DLK1
DLX3
DLX5
DMRT1
DMRTA2
DNER
DNER
DOK5
DPEP1
DPEP1
DPP10
DPP6
DPP6
DRD2
DSC3
DSG1
DSG3
DTX4
DUSP5
DUSP6
EEF1A2
EFHD1
ELANE
ELANE
ELAVL4
EMB
EMP3
ENPP3
EPCAM
EPCAM
EPX
EPX
EYA1
F10
F2
F2
FABP1
FABP7
FAM3
FAM3
FAM101A
FAM110D
FAM129C
FAM131A
FAM131B
FAM163B
FAM163B
FAM19A3
FAM19A4
FAM3B
FAM3C
FAT2
FCGBP
FCGR3B
FCN1
FCN2
FCN3
FCRL3
FCRLA
FEV
FGA
FGB
FGF18
FGF21
FGFBP
FGFBP1
FGG
FGL1
FLT3
FOLH1
FOLH1
FOSB
FOXA2
FOXA2
FOXC1
FOXC2
FOXD3
FOXE1
FOXH1
FOXI1
FOXJ1
FOXN1
FOXP2
GABBR2
GAL3ST3
GAPT
GAPDHS
GAS7
GATA2
GATA3
GATA4
GATA6
GBP6
GC
GDAP1L1
GDF3


Actual_values vs Predicted_values for Features with Close Mean Actual Value
Predicted_values
Actual_values



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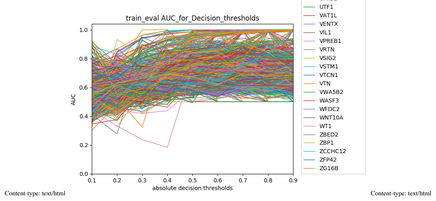

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----------Model evaluation for Test data----------

Min Square Error for the Model

MSE of test_eval set:1.2588100512 7

No. of features showing LOW 'RMSE/Stdev' (<=1.0): 84

All such features with their Low 'RMSE/Stdev' values could be found in output file: test_eval_multiTask1.linearModel_Labels_with_Low_Ratio.csv

No. of features showing HIGH 'RMSE/Stdev' (>1.0): 874

All such features with their High 'RMSE/Stdev' values could be found in output file: test_eval_multiTask1.linearModel_Labels_with_High_Ratio.csv

Model evaluation for Test data for label features showing Low 'RMSE/Stdev' (<=1.0)


ANXA11
APOA1
ASC1
ASC5
ATP1
ATP2A1
ATP5A1
ATOB
ATP6V1C2
ATPC3
ATPD
ATPF1
AQP4
ARHGAP39
ARPP21
ASB11
ASPC1
ASPG2
ASPG5
ASPG6L1
ATCAY
ATP1A4
ATP6V0A4
ATP6V0D2
ATPK
ATPV1B1
AXIN1
BAALC
BAAT
BBS10
BCAN
BCHE
BCL6
BHLHA15
BMP7
BNC
BPIFB1
BPIFB2
BRINP3
BRK1
BTK
C10orf99
C11orf53
C14orf105
C16orf89
C16orf92
C1QL1
C1QTNF6
C1orf228
C1orf61
C2orf88
C4BPA
C8B
CA10
CA11
CA3
CA4
CACNA2D3
CALB2
CALML3
CALML5
CAPN3
CARTPT
CBLN3
CCL13
CCL18
CCL22
CCL24
CCL3
CCN1
CCN4
CD109
CD14
CD1B
CD1C
CD1D
CD207
CD1E
CD3D
CD40LG
CD8B
CDH19
CDH23
CDH5
CDH6
CDON
CDX1
CEACAM3
CEACAM6
CEACAM7
CELSR3
CER1
CFHR1
CFI
CH507-429J11.8
CHAT
CHI3L2
CHRNA1
CHRNA3
CHRNG
CITED1
CLDN16
CLDN6
CLEC10A
CLIC6
CLMN3
CMTM5
COL11A2
COL13A1
COL19A1
COL2A1
COMP
CP81
CPB1
CPM25
CPNE5
CR4BP1
CRABP1
CRP
CRYGC
CRYAB
CRYD6
CST1
CTNND2
CTSV
CUBN
CUX2
CXADR3
CXCL17
CYC1
CYCLE
CXCL8
CXCR2
CYP11A1
CYP11B1
CYP11B2
CYP2B1
CYP4F3
CYP4F8
CYSLTR1
DAS234E
DAS240
DACH1
DAPL1
DDC1
DCSTAMP
DCT
DDC
DDR1
DES
DGKK
DKK1
DLX1
DLX5
DMBX1
DMD5H
DMRT2
DMRTA
DOK5
DPEP1
DPP3
DPP6
DTX1
DUSP26
EDNRB
EFTUD2
EGF
ELANE
ELAVL4
EMB
EPHX3
EPHX4
EXTL1
FAT1
FABP1
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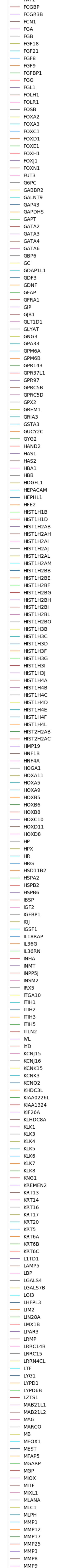
FAM129C
FAM131B
FAM163B
FAM168B
FAM19A3
FAM19A4
FAM3B
FAM83A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FOLR1
FOSB
FOXA2
FOXA3
FOXC1
FOXD1
FOXE1
FOXH1
FOXJ1
FOXN1
FUT3
G6PC
GABBR2
GALNT9
GAP43
GAPDHS
GAPT
GATA2
GATA3
GATA4
GATA6
GBP6
GC
GDAP1L1
GDF3
GDNF
GFAP
GFRA1
GIP
GJB1
GLT1D1
GLYAT
GNG3
GPA33
GPM6A
GPM6B
GPR143
GPR37L1
GPR97
GPRC5B
GPRC5D
GPX2
GREM1
GRIA3
GSTA3
GUCY2C
GYG2
HAND2
HAS1
HAS2
HBA1
HBB
HDGFL1
HEPACAM
HEPHL1
HFE2
HIST1H1B
HIST1H1D
HIST1H2AB
HIST1H2AH
HIST1H2AI
HIST1H2AJ
HIST1H2AL
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HIST1H2BB
HIST1H2BE
HIST1H2BF
HIST1H2BG
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HIST1H2BI
HIST1H2BL
HIST1H2BO
HIST1H3B
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HIST1H3G
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HIST1H4B
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HIST2H2AB
HIST2H2AC
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HOGA1
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HOXD11
HOXD8
HP
HPX
HR
HRG
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HSPB2
HSPB6
IBSP
IGF2
IGFBP1
IGJ
IGSF1
IL18RAP
IL36G
IL36RN
INHA
INMT
INPP5J
INSM2
IRX5
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ITIH2
ITIH3
ITIH5
ITLN2
IVL
IYD
KCNJ15
KCNJ16
KCNK15
KCNK3
KCNQ2
KHDC3L
KIAA0226L
KIAA1324
KIF26A
KLHDC8A
KLK1
KLK3
KLK4
KLK5
KLK6
KLK7
KLK8
KNG1
KREMEN2
KRT13
KRT14
KRT16
KRT17
KRT20
KRT5
KRT6A
KRT6B
KRT6C
L1TD1
LAMP5
LBP
LGALS4
LGALS7B
LGI3
LHFPL3
LIM2
LIN28A
LMX1B
LPAR3
LRMP
LRRC14B
LRRC15
LRRN4CL
LTF
LYG1
LYPD1
LYPD6B
LZTS1
MAB21L1
MAB21L2
MAG
MARCO
MB
MEOX1
MEST
MFAP5
MGARP
MGP
MIOX
MITF
MIXL1
MLANA
MLC1
MLPH
MMP1
MMP12
MMP17
MMP25
MMP3
MMP8
MMP9

MOG
MPO
MRGPRF
MS4A3
MSLN
MSMB
MSX1
MT3
MTRNR2L8
MUC15
MUC16
MXRA8
MYBPC1
MYH11
NANOG
NAPSA
NAT8
NCAM1
NCAN
NDNF
NDP
NDUFA4L2
NEFH
NEFL
NFE2
NKX3-1
NNAT
NOX1
NPTX2
NPW
NPY
NR0B1
NR1H4
NR5A1
NRSN1
NTRK2
NTS
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PANX3
PAX2
PAX3
PAX5
PAX9
PCDH18
PDE8B
PDIA2
PDZK1
PEBP4
PEG10
PEG3
PENK
PF4
PGC
PGLYRP1
PGLYRP2
PHOSPHO1
PHYHIPL
PIGR
PIP
PKNOX2
PKP1
PLA2G1B
PLA2G2A
PLG
PLP1
PMEL
PMP2
PNCK
PNMAL2
PNMT
POF1B
POSTN
POU2F2
POU3F3
POU5F1
PPP1R1A
PRAC2
PRAM1
PRAME
PRDM14
PRLHR
PRLR
PROC
PRSS16
PRSS3
PRSS35
PRSS57
PRTN3
PSMB11
PTCRA
PTGER3
PTH1R
PTHLH
PTPRZ1
PVALB
RAB38
RAB3B
RAB3C
RAB44
RASGRP3
RBP4
REEP6
REG4
RFX4
RGL4
RGS20
RHBG
RHCG
RNASE2
RNASE3
RNF186
RNF43
RPRM
RRAD
RSPO1
RTN1
RUNDC3A
RXRG
S100A1
S100A14
S100A7
S100A8
S100A9
S100B
SAA1
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SCG3
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SEMA5B
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SERPINB13
SERPINB3
SERPINB4
SERPINC1
SERPIND1
SERPINE2
SFRP2
SFTA2
SFTPA1
SFTPA2
SFTPB
SFTPC
SFTPD
SHISA2
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SIX2
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SLC26A3
SLC26A4
SLC27A6
SLC28A1
SLC30A2
SLC38A3
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SOX8
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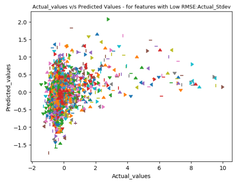

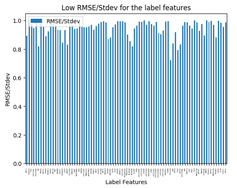

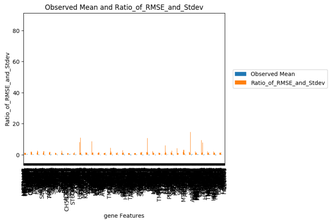

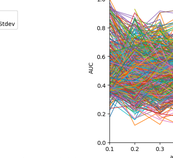

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