

A heatmap visualization of the correlation matrix for the 19 variables. The x and y axes are labeled with variable indices from 0.0 to 17.5 in increments of 2.5. The color scale ranges from -1.00 (dark blue) to 1.00 (dark red), with 0.00 being light gray. The diagonal elements are all 1.00 (dark red). The matrix is symmetric, and the off-diagonal elements show varying degrees of correlation, with some strong positive correlations (e.g., between variables 0 and 1, 1 and 2, 2 and 3, 3 and 4, 4 and 5, 5 and 6, 6 and 7, 7 and 8, 8 and 9, 9 and 10, 10 and 11, 11 and 12, 12 and 13, 13 and 14, 14 and 15, 15 and 16, 16 and 17, 17 and 18) and some negative correlations (e.g., between variables 0 and 18, 1 and 18, 2 and 18, 3 and 18, 4 and 18, 5 and 18, 6 and 18, 7 and 18, 8 and 18, 9 and 18, 10 and 18, 11 and 18, 12 and 18, 13 and 18, 14 and 18, 15 and 18, 16 and 18, 17 and 18).

